AUTHOR INDEX VOLUME 189

A

Abastado, J.-P. *See* Bousso, Levraud, Kourilsky, and Abastado.

Abbey, N.W. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.

Abe, R. *See* Ashe, Wiest, Abe, and Singer.

Aber, T. *See* Iadecola, Salkowski, Zhang, Aber, Nagayama, Vogel, and Ross.

Abrams, J.S. *See* Allan, Colonna, Lanier, Churakova, Abrams, Ellis, McMichael, and Braud.

Acha-Orbea, H. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.

Achatz, G. *See* Mayer, Appenzeller, Seelbach, Achatz, Oberkofler, Breitenbach, Blaser, and Crameri.

Adachi, R. *See* Baram, Adachi, Medalia, Tuvim, Dickey, Mekori, and Sagi-Eisenberg.

Adams, D.H. *See* Afford, Randhawa, Eliopoulos, Hubscher, Young, and Adams.

Adema, G.J. *See* Dolstra, Fredrix, Maas, Coulie, Brasseur, Mensink, Adema, de Witte, Figdor, and van de Wiel-van Kemenade.

Afford, S.C., Randhawa, S., Eliopoulos, A.G., Hubscher, S.G., Young, L.S., and Adams, D.H. CD40 activation induces apoptosis in cultured human hepatocytes via induction of cell surface Fas ligand expression and amplifies Fas-mediated hepatocyte death during allograft rejection. 441.

Agenès, F., and Freitas, A.A. Transfer of small resting B cells into immunodeficient hosts results in the selection of a self-renewing activated B cell population. 319.

Ahmed, R. *See* Cousens, Peterson, Hsu, Dorner, Altman, Ahmed, and Biron.

Aifantis, I. *See* Di Santo, Aifantis, Rosmaraki, Garcia, Feinberg, Fehling, Fischer, von Boehmer, and Rocha.

Akashi, S. *See* Shimazu, Akashi, Ogata, Nagai, Fukudome, Miyake, and Kimoto.

Akbari, O., Panjwani, N., Garcia, S., Tascon, R., Lowrie, D., and Stockinger, B. DNA vaccination: transfection and activation of dendritic cells as key events for immunity. 169.

Albers, K. *See* Bain, Romanow, Albers, Havran, and Murre.

Albi, N. *See* Liberatore, Capanni, Albi, Volpi, Urbani, Ruggeri, Mencarelli, Grignani, and Velardi.

Alimzhanov, M.B. *See* Endres, Alimzhanov, Plitz, Fütterer, Kosco-Vilbois, Nedospasov, Rajewsky, and Pfeffer.

Allan, D.S.J., Colonna, M., Lanier, L.L., Churakova, T.D., Abrams, J.S., Ellis, S.A., McMichael, A.J., and Braud, V.M. Tetrameric complexes of human histocompatibility leukocyte antigen (HLA)-G bind to peripheral blood myelomonocytic cells. 1149.

Allen, P.M. *See* Williams, Engle, Kersh, White, and Allen.

Allman, D., Li, J., and Hardy, R.R. Commitment to the B lymphoid lineage occurs before D_H-J_H recombination. 735.

Al-Mutairi, E. *See* Palecanda, Paulauskis, Al-Mutairi, Imrich, Qin, Suzuki, Kodama, Tryggvason, Koziel, and Kobzik.

Alt, F.W. *See* Shaw, Swat, Ferrini, Davidson, and Alt.

Altman, J.D. *See* Cousens, Peterson, Hsu, Dorner, Altman, Ahmed, and Biron.

Alzari, P.M. *See* Susin, Lorenzo, Zamzami, Marzo, Brenner, Larochette, Prévost, Alzari, and Kroemer.

Ambrose, C. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.

Amigorena, S. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.

Angulo, A. *See* Kanakaraj, Ngo, Wu, Angulo, Ghazal, Harris, Siekierka, Peterson, and Fung-Leung.

Antonissen, C. *See* Hermans, Antonissen, Ward, Mayen, Ploemacher, and Touw.

Appella, E. *See* Zhao, Loftus, Appella, and Collins.

Appenzeller, U. *See* Mayer, Appenzeller, Seelbach, Achatz, Oberkofler, Breitenbach, Blaser, and Crameri.

Armstead, V.E. *See* Scalia, Armstead, Minchenko, and Lefer.

Asada, H., Ishii, N., Sasaki, Y., Endo, K., Kasai, H., Tanaka, N., Takeshita, T., Tsuchiya, S., Konno, T., and Sugamura, K. Grf40, a novel Grb2 family member, is involved in T cell signaling through interaction with SLP-76 and LAT. 1383.

Asahi, M. *See* Yamashita, Hoshida, Otsu, Asahi, Kuzuya, and Hori.

Ashe, J.M., Wiest, D.L., Abe, R., and Singer, A. ZAP-70 protein promotes tyrosine phosphorylation of T cell receptor signaling motifs (ITAMs) in immature $CD4^+8^+$ thymocytes with limiting $p56^{lck}$. 1163.

Assossou, O. *See* Kehren, Desvignes, Krasteva, Ducluzeau, Assossou, Horand, Hahne, Kägi, Kaiserlian, and Nicolas.

Atkinson, E. *See* Schönbeck, Mach, Sukhova, Atkinson, Levesque, Herman, Graber, Basset, and Libby.

Atogami, S. *See* Maeda, Yamada, Moriuchi, Sugahara, Tsuruda, Joh, Atogami, Tsukasaki, Tomonaga, and Kamihira.

Attwood, J.T. *See* Munn, Shafizadeh, Attwood, Bondarev, Pashine, and Mellor.

Augugliaro, R. *See* Cantoni, Bottino, Vitale, Pessino, Augugliaro, Malaspina, Parolini, Moretta, Moretta, and Biassoni.

Austin, L.M. *See* Ozawa, Ferenczi, Kikuchi, Cardinale, Austin, Coven, Burack, and Krueger.

Autschbach, F. *See* Marie-Cardine, Kirchgessner, Bruyns, Shevchenko, Mann, Autschbach, Ratnofsky, Meuer, and Schraven.

Ayehunie, S. *See* Robert, Fuhlbrigge, Kieffer, Ayehunie, Hynes, Cheng, Grabbe, von Andrian, and Kupper.

B

Baba, E. *See* Davis, Mandelboim, Luque, Baba, Boyson, and Strominger.

Bachmann, M.F., Gallimore, A., Linkert, S., Cerundolo, V., Lanzavecchia, A., Kopf, M., and Viola, A. Developmental regulation of Lck targeting to the CD8 coreceptor controls signaling in naive and memory T cells. 1521.

—, **Wong, B.R., Josien, R., Steinman, R.M., Oxenius, A., and Choi, Y.** TRANCE, a tumor necrosis factor family member critical for CD40 ligand–independent T helper cell activation. 1025.

— *See* Ruedl, Kopf, and Bachmann.

Bagrodia, S. *See* Chen, Bagrodia, Cerione, and Galán.

Bai, X.-F. *See* Sarma, Guo, Guilloux, Lee, Bai, and Liu.

Bain, G., Romanow, W.J., Albers, K., Havran, W.L., and Murre, C. Positive and negative regulation of V(D)J recombination by the E2A proteins. 289.

Baldwin, K.K., Reay, P.A., Wu, L., Farr, A., and Davis, M.M. A T cell receptor–specific blockade of positive selection. 13.

Banu, Y., and Watanabe, T. Augmentation of antigen receptor–mediated responses by histamine H1 receptor signaling. 673.

Baram, D., Adachi, R., Medalia, O., Tuvim, M., Dickey, B.F., Mekori, Y.A., and Sagi-Eisenberg, R. Synaptotagmin II negatively regulates Ca^{2+}-triggered exocytosis of lysosomes in mast cells. 1649.

Bare, C. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.

Barrett, L. *See* Centurion-Lara, Castro, Barrett, Cameron, Mostowfi, Van Voorhis, and Lukehart.

Bartek, J. *See* Tanguay, Colarusso, Pavlovic, Irigoyen, Howard, Bartek, Chiles, and Rothstein.

Bartke, I. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.

Basset, P. *See* Schönbeck, Mach, Sukhova, Atkinson, Levesque, Herman, Graber, Basset, and Libby.

Basu, S., and Srivastava, P.K. Calreticulin, a peptide-binding chaperone of the endoplasmic reticulum, elicits tumor- and peptide-specific immunity. 797.
Batista, F.D. *See* O'Keefe, Williams, Batista, and Neuberger.
Bauer, D.E. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Bauer, M. *See* Massberg, Sausbier, Klatt, Bauer, Pfeifer, Siess, Fässler, Ruth, Krombach, and Hofmann.
Baur, A.S. *See* Xu, Laffert, Screaton, Kraft, Wolf, Kolanus, Mongkolsapay, McMichael, and Baur.
Beg, A.A. *See* Ouaaz, Li, and Beg.
Behar, S.M., Dascher, C.C., Grusby, M.J., Wang, C.-R., and Brenner, M.B. Susceptibility of mice deficient in CD1D or TAP1 to infection with *Mycobacterium tuberculosis*. 1973.
Behrens, L. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Bellone, M. *See* Manici, Sturniolo, Imro, Hammer, Sinigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.
Bendelac, A. *See* Chiu, Jayawardena, Weiss, Lee, Park, Dautry-Varsat, and Bendelac.
— *See* Tilloy, Treiner, Park, Garcia, Lemonnier, de la Salle, Bendelac, Bonneville, and Lantz.
Bennink, J.R. *See* Chen, Yewdell, Levine, and Bennink.
Benoist, C. *See* Höglund, Mintern, Waltzinger, Heath, Benoist, and Mathis.
Berkahn, C.J. *See* Proft, Moffatt, Berkahn, and Fraser.
Berlin-Rufenach, C., Otto, F., Mathies, M., Westermann, J., Owen, M.J., Hamann, A., and Hogg, N. Lymphocyte migration in lymphocyte function-associated antigen (LFA)-1–deficient mice. 1467.
Bertini, R., Howard, O.M.Z., Dong, H.-F., Oppenheim, J.J., Bizzarri, C., Sergi, R., Caselli, G., Pagliei, S., Romines, B., Wilshire, J.A., Mengozzi, M., Nakamura, H., Yodoi, J., Pekkari, K., Gurunath, R., Holmgren, A., Herzenberg, L.A., Herzenberg, L.A., and Ghezzi, P. Thioredoxin, a redox enzyme released in infection and inflammation, is a unique chemoattractant for neutrophils, monocytes, and T cells. 1783.
Bhatia, M., Bonnet, D., Wu, D., Murdoch, B., Wrana, J., Gallacher, L., and Dick, J.E. Bone morphogenetic proteins regulate the developmental program of human hematopoietic stem cells. 1139.
Biassoni, R. *See* Cantoni, Bottino, Vitale, Pessino, Augugliaro, Malaspina, Parolini, Moretta, Moretta, and Biassoni.
Biron, C.A. *See* Cousens, Peterson, Hsu, Dorner, Altman, Ahmed, and Biron.
Bishop, J.M. *See* Lallemand-Breitenbach, Guillemin, Janin, Daniel, Degos, Kogan, Bishop, and de Thé.
Bixler, S. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
Bizzarri, C. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Bjerke, T. *See* Korsgren, Persson, Sundler, Bjerke, Hansson, Chambers, Hong, Van Kaer, Ljunggren, and Korsgren.
Blanchard, J. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Blankenstein, T. *See* Schüler, Qin, Ibe, Noben-Trauth, and Blankenstein.
Blaser, K. *See* Mayer, Appenzeller, Seelbach, Achatz, Oberkofler, Breitenbach, Blaser, and Crameri.
Bodmer, J.-L. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
Bolliger, L. *See* Stotz, Bolliger, Carbone, and Palmer.
Bondarev, I. *See* Munn, Shafizadeh, Attwood, Bondarev, Pashine, and Mellor.
Bonnerot, C. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.
Bonnet, D. *See* Bhatia, Bonnet, Wu, Murdoch, Wrana, Gallacher, and Dick.
Bonneville, M. *See* Tilloy, Treiner, Park, Garcia, Lemonnier, de la Salle, Bendelac, Bonneville, and Lantz.
Bonvini, E. *See* Tometti, Verí, Bonvini, and D'Adamio.
Boon, T. *See* Chaux, Vantomme, Stroobant, Thielemans, Corthals, Luiten, Eggermont, Boon, and van der Bruggen.
Borrow, P. *See* Guidotti, Borrow, Brown, McClary, Koch, and Chisari.
Bosma, G.C. *See* Chang, Bosma, and Bosma.
Bosma, M.J. *See* Chang, Bosma, and Bosma.
Bottino, C. *See* Cantoni, Bottino, Vitale, Pessino, Augugliaro, Malaspina, Parolini, Moretta, Moretta, and Biassoni.
Bousso, P., Levraud, J.-P., Kourilsky, P., and Abastado, J.-P. The composition of a primary T cell response is largely determined by the timing of recruitment of individual T cell clones. 1591.
Boyson, J. *See* Davis, Mandelboim, Luque, Baba, Boyson, and Strominger.
Bozza, M., Satoskar, A.R., Lin, G., Lu, B., Humbles, A.A., Gerard, C., and David, J.R. Targeted disruption of migration inhibitory factor gene reveals its critical role in sepsis. 341.
Brady, H.J.M. *See* Mok, Gil-Gómez, Williams, Coles, Taga, Tolaini, Norton, Kioussis, and Brady.
Brandhorst, T.T., Wüthrich, M., Warner, T., and Klein, B. Targeted gene disruption reveals an adhesin indispensable for pathogenicity of *Blastomyces dermatitidis*. 1207.
Brandtzaeg, P. *See* Morton, van Zandbergen, van Kooten, Howard, van de Winkel, and Brandtzaeg.
Brasseur, F. *See* Dolstra, Fredrix, Maas, Coulie, Brasseur, Mensink, Adema, de Witte, Figdor, and van de Wiel-van Kemenade.
Braud, V.M. *See* Allan, Colonna, Lanier, Churakova, Abrams, Ellis, McMichael, and Braud.
Braun, M.C., He, J., Wu, C.-Y., and Kelsall, B.L. Cholera toxin suppresses interleukin (IL)-12 production and IL-12 receptor β1 and β2 chain expression. 541.
Breitenbach, M. *See* Mayer, Appenzeller, Seelbach, Achatz, Oberkofler, Breitenbach, Blaser, and Crameri.
Breitschopf, K. *See* Dimmeler, Breitschopf, Haendeler, and Zeiher.
Brenner, C. *See* Susin, Lorenzo, Zamzami, Marzo, Brenner, Larochette, Prévost, Alzari, and Kroemer.
Brenner, M.B. *See* Behar, Dascher, Grusby, Wang, and Brenner.
— *See* Grant, Degano, Rosat, Stenger, Modlin, Wilson, Porcelli, and Brenner.
Brisette, R. *See* Hexham, White, Carayannopoulos, Mandecki, Brisette, Yang, and Capra.
Brombacher, F. *See* Vink, Warnier, Brombacher, and Renauld.
Brossay, L. *See* Chang, Brossay, Kronenberg, and Kane.
Brown, A. *See* Guidotti, Borrow, Brown, McClary, Koch, and Chisari.
Browning, J.L. *See* Ngo, Korner, Gunn, Schmidt, Riminton, Cooper, Browning, Sedgwick, and Cyster.
— *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
Broxmeyer, H.E., Cooper, S., Hangoc, G., Gao, J.-L., and Murphy, P.M. Dominant myelopoietic effector functions mediated by chemokine receptor CCR1. 1987.
Brüggemann, M. *See* Popov, Zou, Xian, Nicholson, and Brüggemann.
Brunner, T. *See* Genestier, Kasibhatla, Brunner, and Green.
Bruyns, E. *See* Marie-Cardine, Kirchgessner, Bruyns, Shevchenko, Mann, Autschbach, Ratnofsky, Meuer, and Schraven.
Bucy, R.P. *See* Hockett, Kilby, Derdeyn, Saag, Sillers, Squires, Chiz, Nowak, Shaw, and Bucy.
Bui, A. *See* Mandik-Nayak, Seo, Sokol, Potts, Bui, and Erikson.
Burack, L.H. *See* Ozawa, Ferenczi, Kikuchi, Cardinale, Austin, Coven, Burack, and Krueger.
Busch, D.H., and Pamer, E.G. T cell affinity maturation by selective expansion during infection. 701.
Butcher, E.C. *See* Stein, Cheng, Stockton, Fors, Butcher, and von Andrian.

C

Calabretta, B. *See* Nieborowska-Skorska, Wasik, Slupianek, Salomoni, Kitamura, Calabretta, and Skorski.

Cameron, C. *See* Centurion-Lara, Castro, Barrett, Cameron, Mostowfi, Van Voorhis, and Lukehart.

Canonne-Hergaux, F. *See* Gruenheid, Canonne-Hergaux, Gauthier, Hackam, Grinstein, and Gros.

Cantoni, C., Bottino, C., Vitale, M., Pessino, A., Augugliaro, R., Malaspina, A., Parolini, S., Moretta, L., Moretta, A., and Biassoni, R. NKp44, a triggering receptor involved in tumor cell lysis by activated human natural killer cells, is a novel member of the immunoglobulin superfamily. 787.

Capanni, M. *See* Liberatore, Capanni, Albi, Volpi, Urbani, Ruggeri, Mencarelli, Grignani, and Velardi.

Capra, J.D. *See* Hexham, White, Carayannopoulos, Mandecki, Brisette, Yang, and Capra.

Carayannopoulos, L.N. *See* Hexham, White, Carayannopoulos, Mandecki, Brisette, Yang, and Capra.

Carbone, F.R. *See* Stotz, Bolliger, Carbone, and Palmer.

Cardinale, I. *See* Ozawa, Ferenczi, Kikuchi, Cardinale, Austin, Coven, Burack, and Krueger.

Carter, L.L., and Murphy, K.M. Lineage-specific requirement for signal transducer and activator of transcription (Stat)4 in interferon γ production from $CD4^+$ versus $CD8^+$ T cells. 1355.

Cascalho, M. *See* López-Macías, Kalinke, Cascalho, Wabl, Hengartner, Zinkernagel, and Lamarre.

Caselli, G. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.

Caspi, R.R. *See* Tarrant, Silver, Wahlsten, Rizzo, Chan, Wiggert, and Caspi.

Castro, C. *See* Centurion-Lara, Castro, Barrett, Cameron, Mostowfi, Van Voorhis, and Lukehart.

Cella, M., Salio, M., Sakakibara, Y., Langen, H., Julkunen, I., and Lanzavecchia, A. Maturation, activation, and protection of dendritic cells induced by double-stranded RNA. 821.

Centurion-Lara, A., Castro, C., Barrett, L., Cameron, C., Mostowfi, M., Van Voorhis, W.C., and Lukehart, S.A. *Treponema pallidum* major sheath protein homologue Tpr K is a target of opsonic antibody and the protective immune response. 647. Correction. 1853.

Cerione, R.A. *See* Chen, Bagrodia, Cerione, and Galán.

Cerottini, J.-C. *See* Valmori, Gileadi, Servis, Dunbar, Cerottini, Romero, Cerundolo, and Lévy.

Cerundolo, V. *See* Bachmann, Gallimore, Linkert, Cerundolo, Lanzavecchia, Kopf, and Viola.

— *See* Valmori, Gileadi, Servis, Dunbar, Cerottini, Romero, Cerundolo, and Lévy.

Cerwenka, A., Morgan, T.M., Harmsen, A.G., and Dutton, R.W. Migration kinetics and final destination of type 1 and type 2 CD8 effector cells predict protection against pulmonary virus infection. 423.

Chambers, B.J. *See* Korsgren, Persson, Sundler, Bjerke, Hansson, Chambers, Hong, Van Kaer, Ljunggren, and Korsgren.

Chan, C.-C. *See* Tarrant, Silver, Wahlsten, Rizzo, Chan, Wiggert, and Caspi.

Chan, E.K.L. *See* Zhang, Chan, Peng, and Tan.

Chan, O.T.M., Hannum, L.G., Haberman, A.M., Madaio, M.P., and Shlomchik, M.J. A novel mouse with B cells but lacking serum antibody reveals an antibody-independent role for B cells in murine lupus. 1639.

Chandawarkar, R.Y., Wagh, M.S., and Srivastava, P.K. The dual nature of specific immunological activity of tumor-derived gp96 preparations. 1437.

Chang, C.S., Brossay, L., Kronenberg, M., and Kane, K.P. The murine nonclassical class I major histocompatibility complex–like CD1.1 molecule protects target cells from lymphokine-activated killer cell cytolysis. 483.

Chang, J.T., Shevach, E.M., and Segal, B.M. Regulation of interleukin (IL)-12 receptor β2 subunit expression by endogenous IL-12: a critical step in the differentiation of pathogenic autoreactive T cells. 969.

Chang, Y., Bosma, M.J., and Bosma, G.C. Extended duration of DH–JH rearrangement in immunoglobulin heavy chain transgenic mice: implications for regulation of allelic exclusion. 1295.

Chaudhary, P.M. *See* Law, Ewings, Chaudhary, Solow, Yun, Marshall, Hood, and Clark.

Chaux, P., Vantomme, V., Stroobant, V., Thielemans, K., Corthals, J., Luiten, R., Eggermont, A.M.M., Boon, T., and van der Bruggen, P. Identification of MAGE-3 epitopes presented by HLA-DR molecules to $CD4^+$ T lymphocytes. 767.

Chen, C.-C. *See* Kubagawa, Chen, Ho, Shimada, Gartland, Mashburn, Uehara, Ravetch, and Cooper.

Chen, L.-M., Bagrodia, S., Cerione, R.A., and Galán, J.E. Requirement of p21-activated kinase (PAK) for *Salmonella typhimurium*–induced nuclear responses. 1479.

Chen, W., Yewdell, J.W., Levine, R.L., and Bennink, J.R. Modification of cysteine residues in vitro and in vivo affects the immunogenicity and antigenicity of of major histocompatibility complex class I–restricted viral determinants. 1757.

Cheng, G. *See* Robert, Fuhlbrigge, Kieffer, Ayehunie, Hynes, Cheng, Grabbe, von Andrian, and Kupper.

— *See* Stein, Cheng, Stockton, Fors, Butcher, and von Andrian.

Chiles, T.C. *See* Tanguay, Colarusso, Pavlovic, Irigoyen, Howard, Bartek, Chiles, and Rothstein.

Chinzei, Y. *See* Yuda, Sawai, and Chinzei.

Chisari, F.V. *See* Guidotti, Borrow, Brown, McClary, Koch, and Chisari.

Chiu, Y.-H., Jayawardena, J., Weiss, A., Lee, D., Park, S.-H., Dautry-Varsat, A., and Bendelac, A. Distinct subsets of CD1d-restricted T cells recognize self-antigens loaded in different cellular compartments. 103.

Chivetta, M. *See* Pakala, Chivetta, Kelly, and Katz.

Chiz, S. *See* Hockett, Kilby, Derdeyn, Saag, Sillers, Squires, Chiz, Nowak, Shaw, and Bucy.

Choi, Y. *See* Bachmann, Wong, Josien, Steinman, Oxenius, and Choi.

Christian, R.E. *See* Pieper, Christian, Gonzales, Nishimura, Gupta, Settlage, Shabanowitz, Rosenberg, Hunt, and Topalian.

Chrousos, G.P. *See* Kino, Gragerov, Kopp, Stauber, Pavlakis, and Chrousos.

Chu, W. *See* Li, Chu, Hu, Delhase, Deerinck, Ellisman, Johnson, and Karin.

Churakova, T.D. *See* Allan, Colonna, Lanier, Churakova, Abrams, Ellis, McMichael, and Braud.

Clark, E.A. *See* Law, Ewings, Chaudhary, Solow, Yun, Marshall, Hood, and Clark.

— *See* Sun and Clark.

Clermont, S. *See* Qureshi, Larivière, Leveque, Clermont, Moore, Gros, and Malo.

Cloutier, J.-F., and Veillette, A. Cooperative inhibition of T-cell antigen receptor signaling by a complex between a kinase and a phosphatase. 111.

Clynes, R., Maizes, J.S., Guinamard, R., Ono, M., Takai, T., and Ravetch, J.V. Modulation of immune complex–induced inflammation in vivo by the coordinate expression of activation and inhibitory Fc receptors. 179.

Cocea, L., De Smet, A., Saghatchian, M., Fillatreau, S., Ferradini, L., Schurmans, S., Weill, J.-C., and Reynaud, C.-A. A targeted deletion of a region upstream from the J_κ cluster impairs κ chain rearrangement in cis in mice and in the 103/bcl2 cell line. 1443.

Coffman, R.L. *See* Cua, Groux, Hinton, Stohlman, and Coffman.

Colarusso, T.P. *See* Schneider, Fischer, Donohoe, Colarusso, and Rothstein.

— *See* Tanguay, Colarusso, Pavlovic, Irigoyen, Howard, Bartek, Chiles, and Rothstein.

Coles, M. *See* Mok, Gil-Gómez, Williams, Coles, Taga, Tolaini, Norton, Kioussis, and Brady.

Colley, D.G. *See* Montesano, Colley, Eloi-Santos, Freeman, and Secor.

Collins, E.J. *See* Zhao, Loftus, Appella, and Collins.

Colonna, M. *See* Allan, Colonna, Lanier, Churakova, Abrams, Ellis, McMichael, and Braud.

Conlon, P. *See* Ruiz, Garren, Hirschberg, Langer-Gould, Levite, Karpuj, Southwood, Sette, Conlon, and Steinman.

Cooper, M.D. *See* Kubagawa, Chen, Ho, Shimada, Gartland, Mashburn, Uehara, Ravetch, and Cooper.

— *See* Ngo, Korner, Gunn, Schmidt, Rimington, Cooper, Browning, Sedgwick, and Cyster.

Cooper, S. *See* Broxmeyer, Cooper, Hangoc, Gao, and Murphy.
Corthals, J. *See* Chaux, Vantomme, Stroobant, Thielemans, Corthals, Luiten, Eggermont, Boon, and van der Bruggen.
Coulie, P.G. *See* Dolstra, Fredrix, Maas, Coulie, Brasseur, Mensink, Adema, de Witte, Figdor, and van de Wiel-van Kemenade.
Coulombel, L. *See* Robin, Pflumio, Vainchenker, and Coulombel.
Cousens, L.P., Peterson, R., Hsu, S., Dorner, A., Altman, J.D., Ahmed, R., and Biron, C.A. Two roads diverged: interferon α/β– and interleukin 12–mediated pathways in promoting T cell interferon γ responses during viral infection. 1315.
Coven, T.R. *See* Ozawa, Ferenczi, Kikuchi, Cardinale, Austin, Coven, Burack, and Krueger.
Crameri, R. *See* Mayer, Appenzeller, Seelbach, Achatz, Oberkofler, Breitenbach, Blaser, and Crameri.
Cranston, A. *See* Vora, Tumas-Brundage, Lentz, Cranston, Fishel, and Manser.
Crocker, P.R. *See* Nitschke, Floyd, Ferguson, and Crocker.
Cross, A.H. *See* Sabelko-Downes, Cross, and Russell.
Cua, D.J., Groux, H., Hinton, D.R., Stohlman, S.A., and Coffman, R.L. Transgenic interleukin 10 prevents induction of experimental autoimmune encephalomyelitis. 1005.
Cyster, J.G. Chemokines and the homing of dendritic cells to the T cell areas of lymphoid organs. 447.
— *See* Ngo, Korner, Gunn, Schmidt, Riminton, Cooper, Browning, Sedgwick, and Cyster.

D

D'Adamio, L. *See* Tonnetti, Veri, Bonvini, and D'Adamio.
Daley, G.Q. *See* Li, Ilaria, Million, Daley, and Van Etten.
Daniel, M.-T. *See* Lallemand-Breitenbach, Guillemin, Janin, Daniel, Degos, Kogan, Bishop, and de Thé.
Dascher, C.C. *See* Behar, Dascher, Grusby, Wang, and Brenner.
Dautry-Varsat, A. *See* Chiu, Jayawardena, Weiss, Lee, Park, Dautry-Varsat, and Bendelac.
David, J.R. *See* Bozza, Satoskar, Lin, Lu, Humbles, Gerard, and David.
Davidson, L. *See* Shaw, Swat, Ferrini, Davidson, and Alt.
Davidson, R.N. *See* Wilkinson, Patel, Llewelyn, Hirsch, Pasvol, Snounou, Davidson, and Toossi.
Davis, D.M., Mandelboim, O., Luque, I., Baba, E., Boyson, J., and Strominger, J.L. The transmembrane sequence of human histocompatibility leukocyte antigen (HLA)-C as a determinant in inhibition of a subset of natural killer cells. 1265.
Davis, M.M. *See* Baldwin, Reay, Wu, Farr, and Davis.
— *See* Girgis, Davis, and Fazekas de St. Groth.
Deerinck, T. *See* Li, Chu, Hu, Delhase, Deerinck, Ellisman, Johnson, and Karin.
Degano, M. *See* Grant, Degano, Rosat, Stenger, Modlin, Wilson, Porcelli, and Brenner.
Degermann, S., Sollami, G., and Karjalainen, K. T cell receptor β chain lacking the large solvent-exposed Cβ FG loop supports normal α/β T cell development and function in transgenic mice. 1679.
Degos, L. *See* Lallemand-Breitenbach, Guillemin, Janin, Daniel, Degos, Kogan, Bishop, and de Thé.
Dejbakhsh-Jones, S. *See* Zeng, Lewis, Dejbakhsh-Jones, Lan, García-Ojeda, Sibley, and Strober.
Delahunty, M.D. *See* Tu, Delahunty, Ding, Luscinskas, and Tedder.
de la Salle, H. *See* Tilloy, Treiner, Park, Garcia, Lemonnier, de la Salle, Bendelac, Bonneville, and Lantz.
Delhase, M. *See* Li, Chu, Hu, Delhase, Deerinck, Ellisman, Johnson, and Karin.
Dellabona, P. *See* Manici, Sturniolo, Imro, Hammer, Simigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.
Derdeyn, C.A. *See* Hockett, Kilby, Derdeyn, Saag, Sillers, Squires, Chiz, Nowak, Shaw, and Bucy.
De Sanctis, G.T., MacLean, J.A., Hamada, K., Mehta, S., Scott, J.A., Jiao, A., Yandava, C.N., Kobzik, L., Wolyniec, W.W., Fabian, A.J., Venugopal, C.S., Grasemann, H., Huang, P.L., and Drazen, J.M. Contribution of nitric oxide synthases 1, 2, and 3 to airway hyperresponsiveness and inflammation in a murine model of asthma. 1621.
Deshmukh, U.S., Lewis, J.E., Gaskin, F., Kannapell, C.C., Waters, S.T., Lou, Y.-h., Tung, K.S.K., and Fu, S.M. Immune responses to Ro60 and its peptides in mice. I. The nature of the immunogen and endogenous autoantigen determine the specificities of the induced autoantibodies. 531.
De Smedt, T. *See* Maldonado-López, De Smedt, Michel, Godfroid, Pajak, Heirman, Thielemans, Leo, Urbain, and Moser.
De Smet, A. *See* Cocea, De Smet, Saghatchian, Fillatreau, Ferradini, Schurmans, Weill, and Reynaud.
Desvignes, C. *See* Kehren, Desvignes, Krasteva, Ducluzeau, Assossou, Horand, Hahne, Kägi, Kaiserlian, and Nicolas.
de Thé, H. *See* Lallemand-Breitenbach, Guillemin, Janin, Daniel, Degos, Kogan, Bishop, and de Thé.
de Witte, T.M. *See* Dolstra, Fredrix, Maas, Coulie, Brasseur, Mensink, Adema, de Witte, Figdor, and van de Wiel-van Kemenade.
Dick, J.E. *See* Bhatia, Bonnet, Wu, Murdoch, Wrana, Gallacher, and Dick.
Dickey, B.F. *See* Baram, Adachi, Medalia, Tuvim, Dickey, Mekori, and Sagi-Eisenberg.
DiDonato, J. *See* Hettmann, DiDonato, Karin, and Leiden.
Dimmeler, S., Breitschopf, K., Haendeler, J., and Zeiher, A.M. Dephosphorylation targets Bcl-2 for ubiquitin-dependent degradation: a link between the apoptosome and the proteasome pathway. 1815.
Ding, H. *See* Tu, Delahunty, Ding, Luscinskas, and Tedder.
Di Santo, J.P., Aifantis, I., Rosmaraki, E., Garcia, C., Feinberg, J., Fehling, H.J., Fischer, A., von Boehmer, H., and Rocha, B. The common cytokine receptor γ chain and the pre-T cell receptor provide independent but critically overlapping signals in early α/β T cell development. 563.
Dohi, T., Fujihashi, K., Rennert, P.D., Iwatani, K., Kiyono, H., and McGhee, J.R. Hapten-induced colitis is associated with colonic patch hypertrophy and T helper cell 2–type responses. 1169.
Dolstra, H., Fredrix, H., Maas, F., Coulie, P.G., Brasseur, F., Mensink, E., Adema, G.J., de Witte, T.M., Figdor, C.G., and van de Wiel-van Kemenade, E. A human minor histocompatibility antigen specific for B cell acute lymphoblastic leukemia. 301.
Domínguez, M., and Toraño, A. Immune adherence–mediated opsonophagocytosis: the mechanism of *Leishmania* infection. 25.
Dong, H.-F. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Donohoe, T.J. *See* Schneider, Fischer, Donohoe, Colarusso, and Rothstein.
Dooner, M.S. *See* Nilsson, Dooner, Weier, Frenkel, Lian, Stein, and Quesenberry.
Dorman, S.E. *See* Lekstrom-Himes, Dorman, Kopar, Holland, and Gallin.
Dorner, A. *See* Cousens, Peterson, Hsu, Dorner, Altman, Ahmed, and Biron.
Drazen, J.M. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Ducluzeau, M.-T. *See* Kehren, Desvignes, Krasteva, Ducluzeau, Assossou, Horand, Hahne, Kägi, Kaiserlian, and Nicolas.
Dulude, G., Roy, D.-C., and Perreault, C. The effect of graft-versus-host disease on T cell production and homeostasis. 1329.
Dunbar, P.R. *See* Valmori, Gileadi, Servis, Dunbar, Cerottini, Romero, Cerundolo, and Lévy.
Dutton, R.W. *See* Cerwenka, Morgan, Harmsen, and Dutton.

E

Eggermont, A.M.M. *See* Chaux, Vantomme, Stroobant, Thielemans, Corthals, Luiten, Eggermont, Boon, and van der Bruggen.
Ehlich, A. *See* Novobrantseva, Martin, Pelanda, Müller, Rajewsky, and Ehlich.
Elia, A.J. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Eliopoulos, A.G. *See* Afford, Randhawa, Eliopoulos, Hubscher, Young, and Adams.

Ellis, S.A. *See* Allan, Colonna, Lanier, Churakova, Abrams, Ellis, McMichael, and Braud.
Ellisman, M. *See* Li, Chu, Hu, Delhase, Deerinck, Ellisman, Johnson, and Karin.
Eloi-Santos, S. *See* Montesano, Colley, Eloi-Santos, Freeman, and Secor.
Emson, C.L. *See* McKenzie, Fallon, Emson, Grencis, and McKenzie.
Endo, K. *See* Asada, Ishii, Sasaki, Endo, Kasai, Tanaka, Takeshita, Tsuchiya, Konno, and Sugamura.
Endres, M.J., Garlisi, C.G., Xiao, H., Shan, L., and Hedrick, J.A. The Kaposi's sarcoma–related herpesvirus (KSHV)-encoded chemokine vMIP-I is a specific agonist for the CC chemokine receptor (CCR)8. 1993.
Endres, R., Alimzhanov, M.B., Plitz, T., Fütterer, A., Kosco-Vilbois, M.H., Nedospasov, S.A., Rajewsky, K., and Pfeffer, K. Mature follicular dendritic cell networks depend on expression of lymphotoxin β receptor by radioresistant stromal cells and of lymphotoxin β and tumor necrosis factor by B cells. 159.
Engle, D.L. *See* Williams, Engle, Kersh, White, and Allen.
Erikson, J. *See* Mandik-Nayak, Seo, Sokol, Potts, Bui, and Erikson.
Eto, H. *See* Kayagaki, Yamaguchi, Nakayama, Eto, Okumura, and Yagita.
Ewings, M.K. *See* Law, Ewings, Chaudhary, Solow, Yun, Marshall, Hood, and Clark.

F

Fabian, A.J. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Fallon, P.G. *See* McKenzie, Fallon, Emson, Grencis, and McKenzie.
Fan, T. *See* Zhong, Fan, and Liu.
Fanger, N.A. *See* Griffith, Wiley, Kubin, Sedger, Maliszewski, and Fanger.
Farr, A. *See* Baldwin, Reay, Wu, Farr, and Davis.
Fässler, R. *See* Massberg, Sausbier, Klatt, Bauer, Pfeifer, Siess, Fässler, Ruth, Krombach, and Hofmann.
Fazekas de St. Groth, B. *See* Girgis, Davis, and Fazekas de St. Groth.
— *See* Smith and Fazekas de St. Groth.
Fehling, H.J. *See* Di Santo, Aifantis, Rosmaraki, Garcia, Feinberg, Fehling, Fischer, von Boehmer, and Rocha.
Feinberg, J. *See* Di Santo, Aifantis, Rosmaraki, Garcia, Feinberg, Fehling, Fischer, von Boehmer, and Rocha.
Ferenczi, K. *See* Ozawa, Ferenczi, Kikuchi, Cardinale, Austin, Coven, Burack, and Krueger.
Ferguson, D.J.P. *See* Nitschke, Floyd, Ferguson, and Crocker.
Ferradini, L. *See* Cocea, De Smet, Saghatchian, Fillatreau, Ferradini, Schurmans, Weill, and Reynaud.
Ferrini, R. *See* Shaw, Swat, Ferrini, Davidson, and Alt.
Figdor, C.G. *See* Dolstra, Fredrix, Maas, Coulie, Brasseur, Mensink, Adema, de Witte, Figdor, and van de Wiel-van Kemenade.
Fillatreau, S. *See* Cocea, De Smet, Saghatchian, Fillatreau, Ferradini, Schurmans, Weill, and Reynaud.
Fischer, A. *See* Di Santo, Aifantis, Rosmaraki, Garcia, Feinberg, Fehling, Fischer, von Boehmer, and Rocha.
Fischer, G.M. *See* Schneider, Fischer, Donohoe, Colarusso, and Rothstein.
Fishel, R. *See* Vora, Tumas-Brundage, Lentz, Cranston, Fishel, and Manser.
Flad, H.-D. *See* Mattern, Girroleit, Flad, Rietschel, and Ulmer.
Flavell, R.A. *See* Green and Flavell.
— *See* Koni and Flavell.
Floyd, H. *See* Nitschke, Floyd, Ferguson, and Crocker.
Fors, B.P. *See* Stein, Cheng, Stockton, Fors, Butcher, and von Andrian.
Fowell, D.J. *See* Pingel, Launois, Fowell, Turck, Southwood, Sette, Glaichenhaus, Louis, and Locksley.
Fraser, J.D. *See* Proft, Moffatt, Berkahn, and Fraser.
Fraser, J.H. *See* McCoy, Hermans, Fraser, Le Gros, and Ronchese.
Fredrix, H. *See* Dolstra, Fredrix, Maas, Coulie, Brasseur, Mensink, Adema, de Witte, Figdor, and van de Wiel-van Kemenade.
Freeman, G.J. *See* Stremmel, Greenfield, Howard, Freeman, and Kuchroo.
Freeman, G.L., Jr. *See* Montesano, Colley, Eloi-Santos, Freeman, and Secor.
Freitas, A.A. *See* Agenès and Freitas.
Frenkel, B. *See* Nilsson, Dooner, Weier, Frenkel, Lian, Stein, and Quesenberry.
Fu, S.M. *See* Deshmukh, Lewis, Gaskin, Kannapell, Waters, Lou, Tung, and Fu.
Fuhlbrigge, R.C. *See* Robert, Fuhlbrigge, Kieffer, Ayehunie, Hynes, Cheng, Grabbe, von Andrian, and Kupper.
Fujihashi, K. *See* Dohi, Fujihashi, Rennert, Iwatani, Kiyono, and McGhee.
Fukada, T. *See* Kiuchi, Nakajima, Ichiba, Fukada, Narimatsu, Mizuno, Hibi, and Hirano.
Fukao, T. *See* Ohteki, Fukao, Suzue, Maki, Ito, Nakamura, and Koyasu.
Fukudome, K. *See* Shimazu, Akashi, Ogata, Nagai, Fukudome, Miyake, and Kimoto.
Fukumoto, M. *See* Ujike, Ishikawa, Ono, Yuasa, Yoshino, Fukumoto, Ravetch, and Takai.
Fuller, G.M. *See* Jones, Novick, Horiuchi, Yamamoto, Szalai, and Fuller.
Fung-Leung, W.-P. *See* Kanakaraj, Ngo, Wu, Angulo, Ghazal, Harris, Siekierka, Peterson, and Fung-Leung.
Fütterer, A. *See* Endres, Alimzhanov, Plitz, Fütterer, Kosco-Vilbois, Nedospasov, Rajewsky, and Pfeffer.

G

Galán, J.E. *See* Chen, Bagrodia, Cerione, and Galán.
Gallacher, L. *See* Bhatia, Bonnet, Wu, Murdoch, Wrana, Gallacher, and Dick.
Gallimore, A. *See* Bachmann, Gallimore, Linkert, Cerundolo, Lanzavecchia, Kopf, and Viola.
Gallin, J.I. *See* Lekstrom-Himes, Dorman, Kopar, Holland, and Gallin.
Gallmeier, E. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Galon, J. *See* Léonetti, Galon, Thai, Sautès-Fridman, Moine, and Ménez.
Gao, J.-L., Lee, E.J., and Murphy, P.M. Impaired antibacterial host defense in mice lacking the *N*-formylpeptide receptor. 657.
— *See* Broxmeyer, Cooper, Hangoc, Gao, and Murphy.
— *See* Su, Gong, Gao, Shen, Murphy, Oppenheim, and Wang.
Garcia, C. *See* Di Santo, Aifantis, Rosmaraki, Garcia, Feinberg, Fehling, Fischer, von Boehmer, and Rocha.
— *See* Tilloy, Treiner, Park, Garcia, Lemonnier, de la Salle, Bendelac, Bonneville, and Lantz.
Garcia, S. *See* Akbari, Panjwani, Garcia, Tascon, Lowrie, and Stockinger.
García-Ojeda, M. *See* Zeng, Lewis, Dejbakhsh-Jones, Lan, García-Ojeda, Sibley, and Strober.
Garlisi, C.G. *See* Endres, Garlisi, Xiao, Shan, and Hedrick.
Garren, H. *See* Ruiz, Garren, Hirschberg, Langer-Gould, Levite, Karpuj, Southwood, Sette, Conlon, and Steinman.
Gartland, L. *See* Kubagawa, Chen, Ho, Shimada, Gartland, Mashburn, Uehara, Ravetch, and Cooper.
Gaskin, F. *See* Deshmukh, Lewis, Gaskin, Kannapell, Waters, Lou, Tung, and Fu.
Gauthier, S. *See* Gruenheid, Canonne-Hergaux, Gauthier, Hackam, Grinstein, and Gros.
Genestier, L., Kasibhatla, S., Brunner, T., and Green, D.R. Transforming growth factor β1 inhibits Fas ligand expression and subsequent activation-induced cell death in T cells via downregulation of c-Myc. 231.
Gerard, C. *See* Bozza, Satoskar, Lin, Lu, Humbles, Gerard, and David.
Gettie, A. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Ghazal, P. *See* Kanakaraj, Ngo, Wu, Angulo, Ghazal, Harris, Siekierka, Peterson, and Fung-Leung.
Ghezzi, P. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.

Gileadi, U. *See* Valmori, Gileadi, Servis, Dunbar, Cerottini, Romero, Cerundolo, and Lévy.
Gil-Gómez, G. *See* Mok, Gil-Gómez, Williams, Coles, Taga, Tolaini, Norton, Kioussis, and Brady.
Gilleece, M.H. *See* Schultze, Michalak, Lowne, Wong, Gilleece, Gribben, and Nadler.
Girgis, L., Davis, M.M., and Fazekas de St. Groth, B. The avidity spectrum of T cell receptor interactions accounts for T cell anergy in a double transgenic model. 265.
Girroleit, G. *See* Mattern, Girroleit, Flad, Rietschel, and Ulmer.
Glaichenhaus, N. *See* Pingel, Launois, Fowell, Turck, Southwood, Sette, Glaichenhaus, Louis, and Locksley.
Glas, R. *See* Sandberg, Kärre, and Glas.
Gobbi, A., Stoddart, C.A., Malnati, M.S., Locatelli, G., Santoro, F., Abbey, N.W., Bare, C., Linquist-Stepps, V., Moreno, M.B., Herndier, B.G., Lusso, P., and McCune, J.M. Human herpesvirus 6 (HHV-6) causes severe thymocyte depletion in SCID-hu Thy/Liv mice. 1953
Godfroid, J. *See* Maldonado-López, De Smedt, Michel, Godfroid, Pajak, Heirman, Thielemans, Leo, Urbain, and Moser.
Gong, W. *See* Su, Gong, Gao, Shen, Murphy, Oppenheim, and Wang.
Gonzales, M.I. *See* Pieper, Christian, Gonzales, Nishimura, Gupta, Settlage, Shabanowitz, Rosenberg, Hunt, and Topalian.
Gordon, S. *See* Linehan, Martínez-Pomares, Stahl, and Gordon.
Grabbe, S. *See* Robert, Fuhlbrigge, Kieffer, Ayehunie, Hynes, Cheng, Grabbe, von Andrian, and Kupper.
Graber, P. *See* Schönbeck, Mach, Sukhova, Atkinson, Levesque, Herman, Graber, Basset, and Libby.
Gragerov, A. *See* Kino, Gragerov, Kopp, Stauber, Pavlakis, and Chrousos.
Grant, E.P., Degano, M., Rosat, J.-P., Stenger, S., Modlin, R.L., Wilson, I.A., Porcelli, S.A., and Brenner, M.B. Molecular recognition of lipid antigens by T cell receptors. 195.
Grasemann, H. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Green, D.R. *See* Genestier, Kasibhatla, Brunner, and Green.
Green, E.A., and Flavell, R.A. TRANCE–RANK, a new signal pathway involved in lymphocyte development and T cell activation. 1017.
Greenberg, A.H. *See* MacDonald, Shi, Vande Velde, Lieberman, and Greenberg.
Greenfield, E.A. *See* Stremmel, Greenfield, Howard, Freeman, and Kuchroo.
Grencis, R.K. *See* McKenzie, Fallon, Emson, Grencis, and McKenzie.
Gribben, J.G. *See* Schultze, Michalak, Lowne, Wong, Gilleece, Gribben, and Nadler.
Griffith, T.S., Wiley, S.R., Kubin, M.Z., Sedger, L.M., Maliszewski, C.R., and Fanger, N.A. Monocyte-mediated tumoricidal activity via the tumor necrosis factor–related cytokine, TRAIL. 1343.
Grignani, F. *See* Liberatore, Capanni, Albi, Volpi, Urbani, Ruggeri, Mencarelli, Grignani, and Velardi.
Grinstein, S. *See* Gruenheid, Canonne-Hergaux, Gauthier, Hackam, Grinstein, and Gros.
Gros, P. *See* Gruenheid, Canonne-Hergaux, Gauthier, Hackam, Grinstein, and Gros.
— *See* Qureshi, Larivière, Leveque, Clermont, Moore, Gros, and Malo.
Groux, H. *See* Cua, Groux, Hinton, Stohlman, and Coffman.
Gruenheid, S., Canonne-Hergaux, F., Gauthier, S., Hackam, D.J., Grinstein, S., and Gros, P. The iron transport protein NRAMP2 is an integral membrane glycoprotein that colocalizes with transferrin in recycling endosomes. 831.
Grusby, M.J. *See* Behar, Dascher, Grusby, Wang, and Brenner.
Guidotti, L.G., Borrow, P., Brown, A., McClary, H., Koch, R., and Chisari, F.V. Noncytopathic clearance of lymphocytic choriomeningitis virus from the hepatocyte. 1555.
Guillemin, M.-C. *See* Lallemand-Breitenbach, Guillemin, Janin, Daniel, Degos, Kogan, Bishop, and de Thé.
Guilloux, Y. *See* Sarma, Guo, Guilloux, Lee, Bai, and Liu.
Guinamard, R., Signoret, N., Masamichi, I., Marsh, M., Kurosaki, T., and Ravetch, J.V. B cell antigen receptor engagement inhibits stromal cell–derived factor (SDF)-1α chemotaxis and promotes protein kinase C (PKC)-induced internalization of CXCR4. 1461.
— *See* Clynes, Maizes, Guinamard, Ono, Takai, and Ravetch.
Guisez, Y. *See* Takahashi, Waelput, and Guisez.
Gunn, M.D., Kyuwa, S., Tam, C., Kakiuchi, T., Matsuzawa, A., Williams, L.T., and Nakano, H. Mice lacking expression of secondary lymphoid organ chemokine have defects in lymphocyte homing and dendritic cell localization. 451.
— *See* Ngo, Korner, Gunn, Schmidt, Riminton, Cooper, Browning, Sedgwick, and Cyster.
Guo, Y. *See* Sarma, Guo, Guilloux, Lee, Bai, and Liu.
Gupta, G. *See* Pieper, Christian, Gonzales, Nishimura, Gupta, Settlage, Shabanowitz, Rosenberg, Hunt, and Topalian.
Gurunath, R. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.

H

Haberman, A.M. *See* Chan, Hannum, Haberman, Madaio, and Shlomchik.
Hachicha, M., Pouliot, M., Petasis, N.A., and Serhan, C.N. Lipoxin (LX)A_4 and aspirin-triggered 15-epi-LXA_4 inhibit tumor necrosis factor 1α–initiated neutrophil responses and trafficking: regulators of a cytokine–chemokine axis. 1923.
Hackam, D.J. *See* Gruenheid, Canonne-Hergaux, Gauthier, Hackam, Grinstein, and Gros.
Haendeler, J. *See* Dimmeler, Breitschopf, Haendeler, and Zeiher.
Hafezi-Moghadam, A., and Ley, K. Relevance of L-selectin shedding for leukocyte rolling in vivo. 939.
Hahne, M. *See* Kehren, Desvignes, Krasteva, Ducluzeau, Assossou, Horand, Hahne, Kägi, Kaiserlian, and Nicolas.
Hajimohammad, A. *See* Noll, Wozniak, McCarson, Hajimohammad, Metzner, Inserte, Kummer, Hehrlein, and Piper.
Hakem, A., Sasaki, T., Kozieradzki, I., and Penninger, J.M. The cyclin-dependent kinase Cdk2 regulates thymocyte apoptosis. 957.
Hamada, K. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Hamann, A. *See* Berlin-Rufenach, Otto, Mathies, Westermann, Owen, Hamann, and Hogg.
Hammer, J. *See* Manici, Sturniolo, Imro, Hammer, Sinigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.
Hangoc, G. *See* Broxmeyer, Cooper, Hangoc, Gao, and Murphy.
Hannum, L.G. *See* Chan, Hannum, Haberman, Madaio, and Shlomchik.
Hansson, T. *See* Korsgren, Persson, Sundler, Bjerke, Hansson, Chambers, Hong, Van Kaer, Ljunggren, and Korsgren.
Hardy, R.R. *See* Allman, Li, and Hardy.
Harmsen, A.G. *See* Cerwenka, Morgan, Harmsen, and Dutton.
Harris, C.A. *See* Kanakaraj, Ngo, Wu, Angulo, Ghazal, Harris, Siekierka, Peterson, and Fung-Leung.
Harrison, T.E. *See* Leib, Harrison, Laslo, Machalek, Moorman, and Virgin.
Harth, G., and Horwitz, M.A. An inhibitor of exported *Mycobacterium tuberculosis* glutamine synthetase selectively blocks the growth of pathogenic mycobacteria in axenic culture and in human monocytes: extracellular proteins as potential novel drug targets. 1425.
Haselden, B.M., Kay, A.B., and Larché, M. Immunoglobulin E–independent major histocompatibility complex–restricted T cell peptide epitope–induced late asthmatic reactions. 1885.
Hausmann, D.H.F., Yu, B., Hausmann, S., and Wucherpfennig, K.W. pH-dependent peptide binding properties of the type I diabetes–associated $I\text{-}A^{g7}$ molecule: rapid release of CLIP at an endosomal pH. 1723.
Hausmann, S. *See* Hausmann, Yu, Hausmann, and Wucherpfennig.
Havran, W.L. *See* Bain, Romanow, Albers, Havran, and Murre.
Haynes, B.F. *See* Sempowski, Lee, Scearce, Patel, and Haynes.
He, J. *See* Braun, He, Wu, and Kelsall.

Headley, C.M. *See* Mehlin, Headley, and Klebanoff.
Heath, W. *See* Höglund, Mintern, Waltzinger, Heath, Benoist, and Mathis.
Hedrick, J.A. *See* Endres, Garlisi, Xiao, Shan, and Hedrick.
Hehrlein, F.W. *See* Noll, Wozniak, McCarson, Hajimohammad, Metzner, Inserte, Kummer, Hehrlein, and Piper.
Heinzel, F.P., and Rerko, R.M. Cure of progressive murine leishmaniasis: interleukin 4 dominance is abolished by transient $CD4^+$ T cell depletion and T helper cell type 1–selective cytokine therapy. 1895.
Heirman, C. *See* Maldonado-López, De Smedt, Michel, Godfroid, Pajak, Heirman, Thielemans, Leo, Urbain, and Moser.
Hengartner, H. *See* López-Macías, Kalinke, Cascalho, Wabl, Hengartner, Zinkernagel, and Lamarre.
Herman, M. *See* Schönbeck, Mach, Sukhova, Atkinson, Levesque, Herman, Graber, Basset, and Libby.
Hermans, I.F. *See* McCoy, Hermans, Fraser, Le Gros, and Ronchese.
Hermans, M.H.A., Antonissen, C., Ward, A.C., Mayen, A.E.M., Ploemacher, R.E., and Touw, I.P. Sustained receptor activation and hyperproliferation in response to granulocyte colony-stimulating factor (G-CSF) in mice with a severe congenital neutropenia/acute myeloid leukemia–derived mutation in the G-CSF receptor gene. 683.
Herndier, B.G. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.
Herzenberg, L.A. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Hessel, A. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Hettmann, T., DiDonato, J., Karin, M., and Leiden, J.M. An essential role for nuclear factor κB in promoting double positive thymocyte apoptosis. 145.
Hexham, J.M., White, K.D., Carayannopoulos, L.N., Mandecki, W., Brisette, R., Yang, Y.-S., and Capra, J.D. A human immunoglobulin (Ig)A Cα3 domain motif directs polymeric Ig receptor–mediated secretion. 747.
Hibi, M. *See* Kiuchi, Nakajima, Ichiba, Fukada, Narimatsu, Mizuno, Hibi, and Hirano.
Hildt, E., and Oess, S. Identification of Grb2 as a novel binding partner of tumor necrosis factor (TNF) receptor 1. 1707.
Hill, L.L., Shreedhar, V.K., Kripke, M.L., and Owen-Schaub, L.B. A critical role for Fas ligand in the active suppression of systemic immune responses by ultraviolet radiation. 1285.
Hinton, D.R. *See* Cua, Groux, Hinton, Stohlman, and Coffman.
Hirano, T. *See* Kiuchi, Nakajima, Ichiba, Fukada, Narimatsu, Mizuno, Hibi, and Hirano.
Hirata, D. *See* Masuyama, Yoshio, Suzuki, Kitagawa, Iwamoto, Kamimura, Hirata, Takeda, Kano, and Minota.
Hirokami, Y. *See* Miyazaki, Hirokami, Matsuhashi, Takatsuka, and Naito.
Hirsch, C.S. *See* Wilkinson, Patel, Llewelyn, Hirsch, Pasvol, Snounou, Davidson, and Toossi.
Hirschberg, D.L. *See* Ruiz, Garren, Hirschberg, Langer-Gould, Levite, Karpuj, Southwood, Sette, Conlon, and Steinman.
Ho, A. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Ho, D.D. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Ho, L.H. *See* Kubagawa, Chen, Ho, Shimada, Gartland, Mashburn, Uehara, Ravetch, and Cooper.
Hockett, R.D., Kilby, J.M., Derdeyn, C.A., Saag, M.S., Sillers, M., Squires, K., Chiz, S., Nowak, M.A., Shaw, G.M., and Bucy, R.P. Constant mean viral copy number per infected cell in tissues regardless of high, low, or undetectable plasma HIV RNA. 1545.
Hofmann, F. *See* Massberg, Sausbier, Klatt, Bauer, Pfeifer, Siess, Fässler, Ruth, Krombach, and Hofmann.
Hofmann, K. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
Hogg, N. *See* Berlin-Rufenach, Otto, Mathies, Westermann, Owen, Hamann, and Hogg.
Höglund, P., Mintern, J., Waltzinger, C., Heath, W., Benoist, C., and Mathis, D. Initiation of autoimmune diabetes by developmentally regulated presentation of islet cell antigens in the pancreatic lymph nodes. 331.
Hohlfeld, R. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Holland, S.M. *See* Lekstrom-Himes, Dorman, Kopar, Holland, and Gallin.
Holler, N. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
Holmgren, A. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Hong, S. *See* Korsgren, Persson, Sundler, Bjerke, Hansson, Chambers, Hong, Van Kaer, Ljunggren, and Korsgren.
Hood, L. *See* Law, Ewings, Chaudhary, Solow, Yun, Marshall, Hood, and Clark.
Hoppe, E. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Horand, F. *See* Kehren, Desvignes, Krasteva, Ducluzeau, Assossou, Horand, Hahne, Kägi, Kaiserlian, and Nicolas.
Hori, M. *See* Yamashita, Hoshida, Otsu, Asahi, Kuzuya, and Hori.
Horiuchi, S. *See* Jones, Novick, Horiuchi, Yamamoto, Szalai, and Fuller.
Horwitz, M.A. *See* Harth and Horwitz.
Hoshida, S. *See* Yamashita, Hoshida, Otsu, Asahi, Kuzuya, and Hori.
Howard, C.J. *See* Morton, van Zandbergen, van Kooten, Howard, van de Winkel, and Brandtzaeg.
Howard, E. *See* Stremmel, Greenfield, Howard, Freeman, and Kuchroo.
Howard, O.M.Z. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Howard, R.G. *See* Tanguay, Colarusso, Pavlovic, Irigoyen, Howard, Bartek, Chiles, and Rothstein.
Hsu, S. *See* Cousens, Peterson, Hsu, Dorner, Altman, Ahmed, and Biron.
Hu, Y. *See* Li, Chu, Hu, Delhase, Deerinck, Ellisman, Johnson, and Karin.
Huang, P.L. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Hubscher, S.G. *See* Afford, Randhawa, Eliopoulos, Hubscher, Young, and Adams.
Humbles, A.A. *See* Bozza, Satoskar, Lin, Lu, Humbles, Gerard, and David.
Hunt, D.F. *See* Pieper, Christian, Gonzales, Nishimura, Gupta, Settlage, Shabanowitz, Rosenberg, Hunt, and Topalian.
Hynes, R.O. *See* Robert, Fuhlbrigge, Kieffer, Ayehunie, Hynes, Cheng, Grabbe, von Andrian, and Kupper.

I

Iadecola, C., Salkowski, C.A., Zhang, F., Aber, T., Nagayama, M., Vogel, S.N., and Ross, M.E. The transcription factor interferon regulatory factor 1 is expressed after cerebral ischemia and contributes to ischemic brain injury. 719.
Ibe, S. *See* Schüler, Qin, Ibe, Noben-Trauth, and Blankenstein.
Ichiba, M. *See* Kiuchi, Nakajima, Ichiba, Fukada, Narimatsu, Mizuno, Hibi, and Hirano.
Ilaria, R.L., Jr. *See* Li, Ilaria, Million, Daley, and Van Etten.
Imrich, A. *See* Palecanda, Paulauskis, Al-Mutairi, Imrich, Qin, Suzuki, Kodama, Tryggvason, Koziel, and Kobzik.
Imro, M.A. *See* Manici, Sturniolo, Imro, Hammer, Sinigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.
Inserte, J. *See* Noll, Wozniak, McCarson, Hajimohammad, Metzner, Inserte, Kummer, Hehrlein, and Piper.

Irigoyen, M. *See* Tanguay, Colarusso, Pavlovic, Irigoyen, Howard, Bartek, Chiles, and Rothstein.
Irwin, C.E. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Ishii, N. *See* Asada, Ishii, Sasaki, Endo, Kasai, Tanaka, Takeshita, Tsuchiya, Konno, and Sugamura.
Ishikawa, Y. *See* Ujike, Ishikawa, Ono, Yuasa, Yoshino, Fukumoto, Ravetch, and Takai.
Itie, A. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Ito, M. *See* Ohteki, Fukao, Suzue, Maki, Ito, Nakamura, and Koyasu.
Iwakabe, K. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
Iwamoto, M. *See* Masuyama, Yoshio, Suzuki, Kitagawa, Iwamoto, Kamimura, Hirata, Takeda, Kano, and Minota.
Iwatani, K. *See* Dohi, Fujihashi, Rennert, Iwatani, Kiyono, and McGhee.

J

Janin, A. *See* Lallemand-Breitenbach, Guillemin, Janin, Daniel, Degos, Kogan, Bishop, and de Thé.
Jayawardena, J. *See* Chiu, Jayawardena, Weiss, Lee, Park, Dautry-Varsat, and Bendelac.
Jiao, A. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Jin, X., Bauer, D.E., Tuttleton, S.E., Lewin, S., Gettie, A., Blanchard, J., Irwin, C.E., Safrit, J.T., Mittler, J., Weinberger, L., Kostrikis, L.G., Zhang, L., Perelson, A.S., and Ho, D.D. Dramatic rise in plasma viremia after $CD8^+$ T cell depletion in simian immunodeficiency virus–infected macaques. 991. Correction. 1999.
Joh, T. *See* Maeda, Yamada, Moriuchi, Sugahara, Tsuruda, Joh, Atogami, Tsukasaki, Tomonaga, and Kamihira.
Johnson, R. *See* Li, Chu, Hu, Delhase, Deerinck, Ellisman, Johnson, and Karin.
Jones, S.A., Novick, D., Horiuchi, S., Yamamoto, N., Szalai, A.J., and Fuller, G.M. C-reactive protein: a physiological activator of interleukin 6 receptor shedding. 599.
Josien, R. *See* Bachmann, Wong, Josien, Steinman, Oxenius, and Choi.
Julkunen, I. *See* Cella, Salio, Sakakibara, Langen, Julkunen, and Lanzavecchia.
Jun, H.-S., Yoon, C.-S., Zbytnuik, L., van Rooijen, N., and Yoon, J.-W. The role of macrophages in T cell–mediated autoimmune diabetes in nonobese diabetic mice. 347.

K

Kägi, D. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
— *See* Kehren, Desvignes, Krasteva, Ducluzeau, Assossou, Horand, Hahne, Kägi, Kaiserlian, and Nicolas.
Kaiserlian, D. *See* Kehren, Desvignes, Krasteva, Ducluzeau, Assossou, Horand, Hahne, Kägi, Kaiserlian, and Nicolas.
Kakiuchi, T. *See* Gunn, Kyuwa, Tam, Kakiuchi, Matsuzawa, Williams, and Nakano.
Kalinke, U. *See* López-Macías, Kalinke, Cascalho, Wabl, Hengartner, Zinkernagel, and Lamarre.
Kamihira, S. *See* Maeda, Yamada, Moriuchi, Sugahara, Tsuruda, Joh, Atogami, Tsukasaki, Tomonaga, and Kamihira.
Kamimura, T. *See* Masuyama, Yoshio, Suzuki, Kitagawa, Iwamoto, Kamimura, Hirata, Takeda, Kano, and Minota.
Kanakaraj, P., Ngo, K., Wu, Y., Angulo, A., Ghazal, P., Harris, C.A., Siekierka, J.J., Peterson, P.A., and Fung-Leung, W.-P. Defective interleukin (IL)-18–mediated natural killer and T helper cell type 1 responses in IL-1 receptor–associated kinase (IRAK)-deficient mice. 1129.
Kane, K.P. *See* Chang, Brossay, Kronenberg, and Kane.
Kannapell, C.C. *See* Deshmukh, Lewis, Gaskin, Kannapell, Waters, Lou, Tung, and Fu.
Kano, S. *See* Masuyama, Yoshio, Suzuki, Kitagawa, Iwamoto, Kamimura, Hirata, Takeda, Kano, and Minota.
Kapp, U., Yeh, W.-C., Patterson, B., Elia, A.J., Kägi, D., Ho, A., Hessel, A., Tipsword, M., Williams, A., Mirtsos, C., Itie, A., Moyle, M., and Mak, T.W. Interleukin 13 is secreted by and stimulates the growth of Hodgkin and Reed-Sternberg cells. 1939.
Kappler, J. *See* Marrack, Kappler, and Mitchell.
Karin, M. *See* Hettmann, DiDonato, Karin, and Leiden.
— *See* Li, Chu, Hu, Delhase, Deerinck, Ellisman, Johnson, and Karin.
Karjalainen, K. *See* Degermann, Sollami, and Karjalainen.
Karpuj, M.V. *See* Ruiz, Garren, Hirschberg, Langer-Gould, Levite, Karpuj, Southwood, Sette, Conlon, and Steinman.
Kärre, K. *See* Sandberg, Kärre, and Glas.
Kasai, H. *See* Asada, Ishii, Sasaki, Endo, Kasai, Tanaka, Takeshita, Tsuchiya, Konno, and Sugamura.
Kasibhatla, S. *See* Genestier, Kasibhatla, Brunner, and Green.
Katz, J.D. *See* Pakala, Chivetta, Kelly, and Katz.
Kawano, T. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
Kawczak, J.A. *See* Tuohy, Yu, Yin, Kawczak, and Kinkel.
Kay, A.B. *See* Haselden, Kay, and Larché.
Kayagaki, N., Yamaguchi, N., Nakayama, M., Eto, H., Okumura, K., and Yagita, H. Type I interferons (IFNs) regulate tumor necrosis factor–related apoptosis-inducing ligand (TRAIL) expression on human T cells: a novel mechanism for the antitumor effects of type I IFNs. 1451.
Kehren, J., Desvignes, C., Krasteva, M., Ducluzeau, M.-T., Assossou, O., Horand, F., Hahne, M., Kägi, D., Kaiserlian, D., and Nicolas, J.-F. Cytotoxicity is mandatory for $CD8^+$ T cell–mediated contact hypersensitivity. 779.
Kelly, C.B. *See* Pakala, Chivetta, Kelly, and Katz.
Kelsall, B.L. *See* Braun, He, Wu, and Kelsall.
Kerschensteiner, M., Gallmeier, E., Behrens, L., Leal, V.V., Misgeld, T., Klinkert, W.E.F., Kolbeck, R., Hoppe, E., Oropeza-Wekerle, R.-L., Bartke, I., Stadelmann, C., Lassmann, H., Wekerle, H., and Hohlfeld, R. Activated human T cells, B cells, and monocytes produce brain-derived neurotrophic factor in vitro and in inflammatory brain lesions: a neuroprotective role of inflammation? 865.
Kersh, G.J. *See* Williams, Engle, Kersh, White, and Allen.
KewalRamani, V.N. *See* Unutmaz, KewalRamani, Marmon, and Littman.
Kieffer, J.D. *See* Robert, Fuhlbrigge, Kieffer, Ayehunie, Hynes, Cheng, Grabbe, von Andrian, and Kupper.
Kikuchi, T. *See* Ozawa, Ferenczi, Kikuchi, Cardinale, Austin, Coven, Burack, and Krueger.
Kilby, J.M. *See* Hockett, Kilby, Derdeyn, Saag, Sillers, Squires, Chiz, Nowak, Shaw, and Bucy.
Kimoto, M. *See* Shimazu, Akashi, Ogata, Nagai, Fukudome, Miyake, and Kimoto.
Kimura, T. *See* Motoyama, Kimura, Takahashi, Watanabe, and Nakano.
Kinkel, R.P. *See* Tuohy, Yu, Yin, Kawczak, and Kinkel.
Kino, T., Gragerov, A., Kopp, J.B., Stauber, R.H., Pavlakis, G.N., and Chrousos, G.P. The HIV-1 virion-associated protein Vpr is a coactivator of the human glucocorticoid receptor. 51.
Kioussis, D. *See* Mok, Gil-Gómez, Williams, Coles, Taga, Tolaini, Norton, Kioussis, and Brady.
Kirchgessner, H. *See* Marie-Cardine, Kirchgessner, Bruyns, Shevchenko, Mann, Autschbach, Ratnofsky, Meuer, and Schraven.
Kitagawa, S. *See* Masuyama, Yoshio, Suzuki, Kitagawa, Iwamoto, Kamimura, Hirata, Takeda, Kano, and Minota.
Kitamura, H., Iwakabe, K., Yahata, T., Nishimura, S.-i., Ohta, A., Ohmi, Y., Sato, M., Takeda, K., Okumura, K., Van Kaer, L., Kawano, T., Taniguchi, M., and Nishimura, T. The natural killer T (NKT) cell ligand α-galactosylceramide demonstrates its immunopotentiating effect by inducing interleukin (IL)-12 production by dendritic cells and IL-12 receptor expression on NKT cells. 1121.
Kitamura, T. *See* Nieborowska-Skorska, Wasik, Slupianek, Salomoni, Kitamura, Calabretta, and Skorski.

Kiuchi, N., Nakajima, K., Ichiba, M., Fukada, T., Narimatsu, M., Mizuno, K., Hibi, M., and Hirano, T. STAT3 is required for the gp130-mediated full activation of the *c-myc* gene. 63.
Kiyono, H. *See* Dohi, Fujihashi, Rennert, Iwatani, Kiyono, and McGhee.
Klatt, P. *See* Massberg, Sausbier, Klatt, Bauer, Pfeifer, Siess, Fässler, Ruth, Krombach, and Hofmann.
Klebanoff, S.J. *See* Mehlin, Headley, and Klebanoff.
Klein, B. *See* Brandhorst, Wüthrich, Warner, and Klein.
Klinkert, W.E.F. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Kobzik, L. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
— *See* Palecanda, Paulauskis, Al-Mutairi, Imrich, Qin, Suzuki, Kodama, Tryggvason, Koziel, and Kobzik.
Koch, R. *See* Guidotti, Borrow, Brown, McClary, Koch, and Chisari.
Kodama, T. *See* Palecanda, Paulauskis, Al-Mutairi, Imrich, Qin, Suzuki, Kodama, Tryggvason, Koziel, and Kobzik.
Kogan, S.C. *See* Lallemand-Breitenbach, Guillemin, Janin, Daniel, Degos, Kogan, Bishop, and de Thé.
Kolanus, W. *See* Xu, Laffert, Screaton, Kraft, Wolf, Kolanus, Mongkolsapay, McMichael, and Baur.
Kolbeck, R. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Koni, P.A., and Flavell, R.A. Lymph node germinal centers form in the absence of follicular dendritic cell networks. 855.
Konno, T. *See* Asada, Ishii, Sasaki, Endo, Kasai, Tanaka, Takeshita, Tsuchiya, Konno, and Sugamura.
Kopar, P. *See* Lekstrom-Himes, Dorman, Kopar, Holland, and Gallin.
Kopf, M. *See* Bachmann, Gallimore, Linkert, Cerundolo, Lanzavecchia, Kopf, and Viola.
— *See* Ruedl, Kopf, and Bachmann.
Kopp, J.B. *See* Kino, Gragerov, Kopp, Stauber, Pavlakis, and Chrousos.
Korner, H. *See* Ngo, Korner, Gunn, Schmidt, Riminton, Cooper, Browning, Sedgwick, and Cyster.
Korsgren, M., Persson, C.G.A., Sundler, F., Bjerke, T., Hansson, T., Chambers, B.J., Hong, S., Van Kaer, L., Ljunggren, H.-G., and Korsgren, O. Natural killer cells determine development of allergen-induced eosinophilic airway inflammation in mice. 553.
Korsgren, O. *See* Korsgren, Persson, Sundler, Bjerke, Hansson, Chambers, Hong, Van Kaer, Ljunggren, and Korsgren.
Kosco-Vilbois, M.H. *See* Endres, Alimzhanov, Plitz, Fütterer, Kosco-Vilbois, Nedospasov, Rajewsky, and Pfeffer.
Kostrikis, L.G. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Kourilsky, P. *See* Bousso, Levraud, Kourilsky, and Abastado.
Koyasu, S. *See* Ohteki, Fukao, Suzue, Maki, Ito, Nakamura, and Koyasu.
Koziel, H. *See* Palecanda, Paulauskis, Al-Mutairi, Imrich, Qin, Suzuki, Kodama, Tryggvason, Koziel, and Kobzik.
Kozieradzki, I. *See* Hakem, Sasaki, Kozieradzki, and Penninger.
Kraft, M. *See* Xu, Laffert, Screaton, Kraft, Wolf, Kolanus, Mongkolsapay, McMichael, and Baur.
Kranz, D.M. *See* Manning, Parke, Teyton, and Kranz.
Krasteva, M. *See* Kehren, Desvignes, Krasteva, Ducluzeau, Assossou, Horand, Hahne, Kägi, Kaiserlian, and Nicolas.
Kripke, M.L. *See* Hill, Shreedhar, Kripke, and Owen-Schaub.
Kroemer, G. *See* Susin, Lorenzo, Zamzami, Marzo, Brenner, Larochette, Prévost, Alzari, and Kroemer.
Krombach, F. *See* Massberg, Sausbier, Klatt, Bauer, Pfeifer, Siess, Fässler, Ruth, Krombach, and Hofmann.
Kronenberg, M. *See* Chang, Brossay, Kronenberg, and Kane.
Krueger, J.G. *See* Ozawa, Ferenczi, Kikuchi, Cardinale, Austin, Coven, Burack, and Krueger.
Kubagawa, H., Chen, C.-C., Ho, L.H., Shimada, T., Gartland, L., Mashburn, C., Uehara, T., Ravetch, J.V., and Cooper, M.D. Biochemical nature and cellular distribution of the paired immunoglobulin-like receptors, PIR-A and PIR-B. 309.
Kubin, M.Z. *See* Griffith, Wiley, Kubin, Sedger, Maliszewski, and Fanger.
Kubo, S. *See* Yuasa, Kubo, Yoshino, Ujike, Matsumura, Ono, Ravetch, and Takai.
Kuchroo, V.K. *See* Stremmel, Greenfield, Howard, Freeman, and Kuchroo.
Kummer, W. *See* Noll, Wozniak, McCarson, Hajimohammad, Metzner, Inserte, Kummer, Hehrlein, and Piper.
Kupper, T.S. *See* Robert, Fuhlbrigge, Kieffer, Ayehunie, Hynes, Cheng, Grabbe, von Andrian, and Kupper.
Kurosaki, T. *See* Guinamard, Signoret, Masamichi, Marsh, Kurosaki, and Ravetch.
Kuzuya, T. *See* Yamashita, Hoshida, Otsu, Asahi, Kuzuya, and Hori.
Kyuwa, S. *See* Gunn, Kyuwa, Tam, Kakiuchi, Matsuzawa, Williams, and Nakano.

L

Lacabanne, V. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.
Laffert, B. *See* Xu, Laffert, Screaton, Kraft, Wolf, Kolanus, Mongkolsapay, McMichael, and Baur.
Lallemand-Breitenbach, V., Guillemin, M.-C., Janin, A., Daniel, M.-T., Degos, L., Kogan, S.C., Bishop, J.M., and de Thé, H. Retinoic acid and arsenic synergize to eradicate leukemic cells in a mouse model of acute promyelocytic leukemia. 1043.
Lamarre, A. *See* López-Macías, Kalinke, Cascalho, Wabl, Hengartner, Zinkernagel, and Lamarre.
Lan, F. *See* Zeng, Lewis, Dejbakhsh-Jones, Lan, García-Ojeda, Sibley, and Strober.
Langen, H. *See* Cella, Salio, Sakakibara, Langen, Julkunen, and Lanzavecchia.
Langer-Gould, A.M. *See* Ruiz, Garren, Hirschberg, Langer-Gould, Levite, Karpuj, Southwood, Sette, Conlon, and Steinman.
Lanier, L.L. *See* Allan, Colonna, Lanier, Churakova, Abrams, Ellis, McMichael, and Braud.
Lankar, D. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.
Lantz, O. *See* Tilloy, Treiner, Park, Garcia, Lemonnier, de la Salle, Bendelac, Bonneville, and Lantz.
Lanzavecchia, A. *See* Bachmann, Gallimore, Linkert, Cerundolo, Lanzavecchia, Kopf, and Viola.
— *See* Cella, Salio, Sakakibara, Langen, Julkunen, and Lanzavecchia.
— *See* Sallusto and Lanzavecchia.
Larché, M. *See* Haselden, Kay, and Larché.
Larivière, L. *See* Qureshi, Larivière, Leveque, Clermont, Moore, Gros, and Malo.
Larochette, N. *See* Susin, Lorenzo, Zamzami, Marzo, Brenner, Larochette, Prévost, Alzari, and Kroemer.
Laslo, K.M. *See* Leib, Harrison, Laslo, Machalek, Moorman, and Virgin.
Lassmann, H. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Launois, P. *See* Pingel, Launois, Fowell, Turck, Southwood, Sette, Glaichenhaus, Louis, and Locksley.
Law, C.-L., Ewings, M.K., Chaudhary, P.M., Solow, S.A., Yun, T.J., Marshall, A.J., Hood, L., and Clark, E.A. GrpL, a Grb2-related adaptor protein, interacts with SLP-76 to regulate nuclear factor of activated T cell activation. 1243.
Lawton, P. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
Leal, V.V. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Leder, P. *See* Reizis and Leder.
Lee, C. *See* Sarma, Guo, Guilloux, Lee, Bai, and Liu.
Lee, D. *See* Chiu, Jayawardena, Weiss, Lee, Park, Dautry-Varsat, and Bendelac.
Lee, D.M. *See* Sempowski, Lee, Scearce, Patel, and Haynes.
Lee, E.J. *See* Gao, Lee, and Murphy.
Lefer, A.M. *See* Scalia, Armstead, Minchenko, and Lefer.

Lefrançois, L., Parker, C.M., Olson, S., Muller, W., Wagner, N., and Puddington, L. The role of β7 integrins in CD8 T cell trafficking during an antiviral immune response. 1631.
Le Gros, G. *See* McCoy, Hermans, Fraser, Le Gros, and Ronchese.
Leib, D.A., Harrison, T.E., Laslo, K.M., Machalek, M.A., Moorman, N.J., and Virgin, H.W. Interferons regulate the phenotype of wild-type and mutant herpes simplex viruses in vivo. 663.
Leiden, J.M. *See* Hettmann, DiDonato, Karin, and Leiden.
Lekstrom-Himes, Dorman, S.E., Kopar, P., Holland, S.M., and Gallin, J.I. Neutrophil-specific granule deficiency results from a novel mutation with loss of function of the transcription factor CCAAT/enhancer binding protein ϵ. 1847.
Lemonnier, F. *See* Tilloy, Treiner, Park, Garcia, Lemonnier, de la Salle, Bendelac, Bonneville, and Lantz.
Lentz, V.M. *See* Vora, Tumas-Brundage, Lentz, Cranston, Fishel, and Manser.
Leo, O. *See* Maldonado-López, De Smedt, Michel, Godfroid, Pajak, Heirman, Thielemans, Leo, Urbain, and Moser.
Léonetti, M., Galon, J., Thai, R., Sautès-Fridman, C., Moine, G., and Ménez, A. Presentation of antigen in immune complexes is boosted by soluble bacterial immunoglobulin binding proteins. 1217.
Leveque, G. *See* Qureshi, Larivière, Leveque, Clermont, Moore, Gros, and Malo.
Levesque, E. *See* Schönbeck, Mach, Sukhova, Atkinson, Levesque, Herman, Graber, Basset, and Libby.
Levine, R.L. *See* Chen, Yewdell, Levine, and Bennink.
Levite, M. *See* Ruiz, Garren, Hirschberg, Langer-Gould, Levite, Karpuj, Southwood, Sette, Conlon, and Steinman.
Levraud, J.-P. *See* Bousso, Levraud, Kourilsky, and Abastado.
Lévy, F. *See* Valmori, Gileadi, Servis, Dunbar, Cerottini, Romero, Cerundolo, and Lévy.
Lewin, S. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Lewis, D. *See* Zeng, Lewis, Dejbakhsh-Jones, Lan, García-Ojeda, Sibley, and Strober.
Lewis, J.E. *See* Deshmukh, Lewis, Gaskin, Kannapell, Waters, Lou, Tung, and Fu.
Ley, K. *See* Hafezi-Moghadam and Ley.
Li, J. *See* Allman, Li, and Hardy.
Li, M. *See* Ouaaz, Li, and Beg.
Li, S., Ilaria, R.L., Jr., Million, R.P., Daley, G.Q., and Van Etten, R.A. The P190, P210, and P230 forms of the *BCR/ABL* oncogene induce a similar chronic myeloid leukemia–like syndrome in mice but have different lymphoid leukemogenic activity. 1399.
Li, Z.-W., Chu, W., Hu, Y., Delhase, M., Deerinck, T., Ellisman, M., Johnson, R., and Karin, M. The IKKβ subunit of IκB kinase (IKK) is essential for nuclear factor κB activation and prevention of apoptosis. 1839.
Lian, J.B. *See* Nilsson, Dooner, Weier, Frenkel, Lian, Stein, and Quesenberry.
Libby, P. *See* Schönbeck, Mach, Sukhova, Atkinson, Levesque, Herman, Graber, Basset, and Libby.
Liberatore, C., Capanni, M., Albi, N., Volpi, I., Urbani, E., Ruggeri, L., Mencarelli, A., Grignani, F., and Velardi, A. Natural killer cell–mediated lysis of autologous cells modified by gene therapy. 1855.
Lichtman, A.H. *See* Xie, Lim, Luscinskas, and Lichtman.
Lieberman, J. *See* MacDonald, Shi, Vande Velde, Lieberman, and Greenberg.
Lim, Y.-C. *See* Xie, Lim, Luscinskas, and Lichtman.
Lin, G. *See* Bozza, Satoskar, Lin, Lu, Humbles, Gerard, and David.
Linehan, S.A., Martínez-Pomares, L., Stahl, P.D., and Gordon, S. Mannose receptor and its putative ligands in normal murine lymphoid and nonlymphoid organs: in situ expression of mannose receptor by selected macrophages, endothelial cells, perivascular microglia, and mesangial cells, but not dendritic cells. 1961.
Linkert, S. *See* Bachmann, Gallimore, Linkert, Cerundolo, Lanzavecchia, Kopf, and Viola.
Linnemeyer, P.A. *See* Nakamura, Linnemeyer, Niemi, Mason, Ortaldo, Ryan, and Seaman.
Linquist-Stepps, V. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.
Littman, D.R. *See* Unutmaz, KewalRamani, Marmon, and Littman.
Liu, L. *See* Zhong, Fan, and Liu.
Liu, Y. *See* Sarma, Guo, Guilloux, Lee, Bai, and Liu.
Ljunggren, H.-G. *See* Korsgren, Persson, Sundler, Bjerke, Hansson, Chambers, Hong, Van Kaer, Ljunggren, and Korsgren.
Llewelyn, M. *See* Wilkinson, Patel, Llewelyn, Hirsch, Pasvol, Snounou, Davidson, and Toossi.
Locatelli, G. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.
Locksley, R.M. *See* Pingel, Launois, Fowell, Turck, Southwood, Sette, Glaichenhaus, Louis, and Locksley.
Loftus, D.J. *See* Zhao, Loftus, Appella, and Collins.
Long, E.O. *See* Rajagopalan and Long.
López-Macías, C., Kalinke, U., Cascalho, M., Wabl, M., Hengartner, H., Zinkernagel, R.M., and Lamarre, A. Secondary rearrangements and hypermutation generate sufficient B cell diversity to mount protective antiviral immunoglobulin responses. 1791.
Lorenzo, H.K. *See* Susin, Lorenzo, Zamzami, Marzo, Brenner, Larochette, Prévost, Alzari, and Kroemer.
Lou, Y.-h. *See* Deshmukh, Lewis, Gaskin, Kannapell, Waters, Lou, Tung, and Fu.
Louis, J.A. *See* Pingel, Launois, Fowell, Turck, Southwood, Sette, Glaichenhaus, Louis, and Locksley.
Lowne, J. *See* Schultze, Michalak, Lowne, Wong, Gilleece, Gribben, and Nadler.
Lowrie, D. *See* Akbari, Panjwani, Garcia, Tascon, Lowrie, and Stockinger.
Lu, B. *See* Bozza, Satoskar, Lin, Lu, Humbles, Gerard, and David.
Luiten, R. *See* Chaux, Vantomme, Stroobant, Thielemans, Corthals, Luiten, Eggermont, Boon, and van der Bruggen.
Lukehart, S.A. *See* Centurion-Lara, Castro, Barrett, Cameron, Mostowfi, Van Voorhis, and Lukehart.
Luque, I. *See* Davis, Mandelboim, Luque, Baba, Boyson, and Strominger.
Luscinskas, F.W. *See* Tu, Delahunty, Ding, Luscinskas, and Tedder. — *See* Xie, Lim, Luscinskas, and Lichtman.
Lusso, P. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.

M

Maas, F. *See* Dolstra, Fredrix, Maas, Coulie, Brasseur, Mensink, Adema, de Witte, Figdor, and van de Wiel-van Kemenade.
MacDonald, G., Shi, L., Vande Velde, C., Lieberman, J., and Greenberg, A.H. Mitochondria-dependent and -independent regulation of granzyme B–induced apoptosis. 131.
Mach, F. *See* Schönbeck, Mach, Sukhova, Atkinson, Levesque, Herman, Graber, Basset, and Libby.
Machalek, M.A. *See* Leib, Harrison, Laslo, Machalek, Moorman, and Virgin.
MacKay, F. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
MacLean, J.A. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Madaio, M.P. *See* Chan, Hannum, Haberman, Madaio, and Shlomchik.
Maeda, T., Yamada, Y., Moriuchi, R., Sugahara, K., Tsuruda, K., Joh, T., Atogami, S., Tsukasaki, K., Tomonaga, M., and Kamihira, S. Fas gene mutation in the progression of adult T cell leukemia. 1063.
Maizes, J.S. *See* Clynes, Maizes, Guinamard, Ono, Takai, and Ravetch.
Mak, T.W. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Maki, C. *See* Ohteki, Fukao, Suzue, Maki, Ito, Nakamura, and Koyasu.
Malaspina, A. *See* Cantoni, Bottino, Vitale, Pessino, Augugliaro, Malaspina, Parolini, Moretta, Moretta, and Biassoni.

Maldonado-López, R., De Smedt, T., Michel, P., Godfroid, J., Pajak, B., Heirman, C., Thielemans, K., Leo, O., Urbain, J., and Moser, M. $CD8\alpha^+$ and $CD8\alpha^-$ subclasses of dendritic cells direct the development of distinct T helper cells in vivo. 587.

Maliszewski, C.R. *See* Griffith, Wiley, Kubin, Sedger, Maliszewski, and Fanger.

Malnati, M.S. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.

Malo, D. *See* Qureshi, Larivière, Leveque, Clermont, Moore, Gros, and Malo.

Mandecki, W. *See* Hexham, White, Carayannopoulos, Mandecki, Brisette, Yang, and Capra.

Mandelboim, O. *See* Davis, Mandelboim, Luque, Baba, Boyson, and Strominger.

Mandelbrot, D.A., McAdam, A.J., and Sharpe, A.H. B7-1 or B7-2 is required to produce the lymphoproliferative phenotype in mice lacking cytotoxic T lymphocyte–associated antigen 4 (CTLA-4). 435.

Mandik-Nayak, L., Seo, S.-j., Sokol, C., Potts, K.M., Bui, A., and Erikson, J. MRL-*lpr/lpr* mice exhibit a defect in maintaining developmental arrest and follicular exclusion of anti–double-stranded DNA B cells. 1799.

Manici, S., Sturniolo, T., Imro, M.A., Hammer, J., Sinigaglia, F., Noppen, C., Spagnoli, G., Mazzi, B., Bellone, M., Dellabona, P., and Protti, M.P. Melanoma cells present a MAGE-3 epitope to $CD4^+$ cytotoxic T cells in association with histocompatibility leukocyte antigen DR11. 871.

Mann, M. *See* Marie-Cardine, Kirchgessner, Bruyns, Shevchenko, Mann, Autschbach, Ratnofsky, Meuer, and Schraven.

Manning, T.C., Parke, E.A., Teyton, L., and Kranz, D.M. Effects of complementarity determining region mutations on the affinity of an α/β T cell receptor: measuring the energy associated with CD4/CD8 repertoire skewing. 461.

Manser, T. *See* Vora, Tumas-Brundage, Lentz, Cranston, Fishel, and Manser.

Marie-Cardine, A., Kirchgessner, H., Bruyns, E., Shevchenko, A., Mann, M., Autschbach, F., Ratnofsky, S., Meuer, S., and Schraven, B. SHP2-interacting transmembrane adaptor protein (SIT), a novel disulfide-linked dimer regulating human T cell activation. 1181.

Marmon, S. *See* Unutmaz, KewalRamani, Marmon, and Littman.

Marrack, P., Kappler, J., and Mitchell, T. Type I interferons keep activated T cells alive. 521.

Marsh, M. *See* Guinamard, Signoret, Masamichi, Marsh, Kurosaki, and Ravetch.

Marshall, A.J. *See* Law, Ewings, Chaudhary, Solow, Yun, Marshall, Hood, and Clark.

Martin, V.M. *See* Novobrantseva, Martin, Pelanda, Müller, Rajewsky, and Ehlich.

Martínez-Pomares, L. *See* Linehan, Martínez-Pomares, Stahl, and Gordon.

Marzo, I. *See* Susin, Lorenzo, Zamzami, Marzo, Brenner, Larochette, Prévost, Alzari, and Kroemer.

Masamichi, I. *See* Guinamard, Signoret, Masamichi, Marsh, Kurosaki, and Ravetch.

Mashburn, C. *See* Kubagawa, Chen, Ho, Shimada, Gartland, Mashburn, Uehara, Ravetch, and Cooper.

Mason, D. *See* Seddon and Mason.

Mason, L.H. *See* Nakamura, Linnemeyer, Niemi, Mason, Ortaldo, Ryan, and Seaman.

Massberg, S., Sausbier, M., Klatt, P., Bauer, M., Pfeifer, A., Siess, W., Fässler, R., Ruth, P., Krombach, F., and Hofmann, F. Increased adhesion and aggregation of platelets lacking cyclic guanosine 3′,5′-monophosphate kinase I. 1255.

Masuyama, J.-i., Yoshio, T., Suzuki, K., Kitagawa, S., Iwamoto, M., Kamimura, T., Hirata, D., Takeda, A., Kano, S., and Minota, S. Characterization of the 4C8 antigen involved in transendothelial migration of $CD26^{hi}$ T cells after tight adhesion to human umbilical vein endothelial cell monolayers. 979.

Mathies, M. *See* Berlin-Rufenach, Otto, Mathies, Westermann, Owen, Hamann, and Hogg.

Mathis, D. *See* Höglund, Mintern, Waltzinger, Heath, Benoist, and Mathis.

Matsuhashi, N. *See* Miyazaki, Hirokami, Matsuhashi, Takatsuka, and Naito.

Matsumura, K. *See* Yuasa, Kubo, Yoshino, Ujike, Matsumura, Ono, Ravetch, and Takai.

Matsuzawa, A. *See* Gunn, Kyuwa, Tam, Kakiuchi, Matsuzawa, Williams, and Nakano.

Mattern, T., Girroleit, G., Flad, H.-D., Rietschel, E.T., and Ulmer, A.J. $CD34^+$ hematopoietic stem cells exert accessory function in lipopolysaccharide-induced T cell stimulation and CD80 expression on monocytes. 693.

Mayen, A.E.M. *See* Hermans, Antonissen, Ward, Mayen, Ploemacher, and Touw.

Mayer, C., Appenzeller, U., Seelbach, H., Achatz, G., Oberkofler, H., Breitenbach, M., Blaser, K., and Crameri, R. Humoral and cell-mediated autoimmune reactions to human acidic ribosomal P_2 protein in individuals sensitized to *Aspergillus fumigatus* P_2 protein. 1507.

Mazzi, B. *See* Manici, Sturniolo, Imro, Hammer, Sinigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.

McAdam, A.J. *See* Mandelbrot, McAdam, and Sharpe.

McCarson, K. *See* Noll, Wozniak, McCarson, Hajimohammad, Metzner, Inserte, Kummer, Hehrlein, and Piper.

McClary, H. *See* Guidotti, Borrow, Brown, McClary, Koch, and Chisari.

McCoy, K.D., Hermans, I.F., Fraser, J.H., Le Gros, G., and Ronchese, F. Cytotoxic T lymphocyte–associated antigen 4 (CTLA-4) can regulate dendritic cell–induced activation and cytotoxicity of $CD8^+$ T cells independently of $CD4^+$ T cell help. 1157.

McCune, J.M. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.

McGhee, J.R. *See* Dohi, Fujihashi, Rennert, Iwatani, Kiyono, and McGhee.

McHeyzer-Williams, L.J., Panus, J.F., Mikszta, J.A., and McHeyzer-Williams, M.G. Evolution of antigen-specific T cell receptors in vivo: preimmune and antigen-driven selection of preferred complementarity-determining region 3 (CDR3) motifs. 1823.

McHeyzer-Williams, M.G. *See* McHeyzer-Williams, Panus, Mikszta, and McHeyzer-Williams.

McKenzie, A.N.J. *See* McKenzie, Fallon, Emson, Grencis, and McKenzie.

McKenzie, G.J., Fallon, P.G., Emson, C.L., Grencis, R.K., and McKenzie, A.N.J. Simultaneous disruption of interleukin (IL)-4 and IL-13 defines individual roles in T helper cell type 2–mediated responses. 1565.

McMichael, A.J. *See* Allan, Colonna, Lanier, Churakova, Abrams, Ellis, McMichael, and Braud.

— *See* Xu, Laffert, Screaton, Kraft, Wolf, Kolanus, Mongkolsapay, McMichael, and Baur.

Medalia, O. *See* Baram, Adachi, Medalia, Tuvim, Dickey, Mekori, and Sagi-Eisenberg.

Mehlin, C., Headley, C.M., and Klebanoff, S.J. An inflammatory polypeptide complex from *Staphylococcus epidermidis*: isolation and characterization. 907.

Mehta, S. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.

Mekori, Y.A. *See* Baram, Adachi, Medalia, Tuvim, Dickey, Mekori, and Sagi-Eisenberg.

Melief, C.J.M. *See* Toes, Ossendorp, Offringa, and Melief.

Mellor, A.L. *See* Munn, Shafizadeh, Attwood, Bondarev, Pashine, and Mellor.

Mencarelli, A. *See* Liberatore, Capanni, Albi, Volpi, Urbani, Ruggeri, Mencarelli, Grignani, and Velardi.

Ménez, A. *See* Léonetti, Galon, Thai, Sautès-Fridman, Moine, and Ménez.

Mengozzi, M. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.

Mensink, E. *See* Dolstra, Fredrix, Maas, Coulie, Brasseur, Mensink, Adema, de Witte, Figdor, and van de Wiel-van Kemenade.

Metzner, H.J. *See* Noll, Wozniak, McCarson, Hajimohammad, Metzner, Inserte, Kummer, Hehrlein, and Piper.
Meuer, S. *See* Marie-Cardine, Kirchgessner, Bruyns, Shevchenko, Mann, Autschbach, Ratnofsky, Meuer, and Schraven.
Michalak, S. *See* Schultze, Michalak, Lowne, Wong, Gilleece, Gribben, and Nadler.
Michel, P. *See* Maldonado-López, De Smedt, Michel, Godfroid, Pajak, Heirman, Thielemans, Leo, Urbain, and Moser.
Mikszta, J.A. *See* McHeyzer-Williams, Panus, Mikszta, and McHeyzer-Williams.
Million, R.P. *See* Li, Ilaria, Million, Daley, and Van Etten.
Minchenko, A.G. *See* Scalia, Armstead, Minchenko, and Lefer.
Minota, S. *See* Masuyama, Yoshio, Suzuki, Kitagawa, Iwamoto, Kamimura, Hirata, Takeda, Kano, and Minota.
Mintern, J. *See* Höglund, Mintern, Waltzinger, Heath, Benoist, and Mathis.
Mirtsos, C. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Misgeld, T. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Mitchell, T. *See* Marrack, Kappler, and Mitchell.
Mittler, J. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Miyake, K. *See* Shimazu, Akashi, Ogata, Nagai, Fukudome, Miyake, and Kimoto.
Miyazaki, T., Hirokami, Y., Matsuhashi, N., Takatsuka, H., and Naito, M. Increased susceptibility of thymocytes to apoptosis in mice lacking AIM, a novel murine macrophage-derived soluble factor belonging to the scavenger receptor cysteine-rich domain superfamily. 413.
Mizuno, K. *See* Kiuchi, Nakajima, Ichiba, Fukada, Narimatsu, Mizuno, Hibi, and Hirano.
Modlin, R.L. *See* Grant, Degano, Rosat, Stenger, Modlin, Wilson, Porcelli, and Brenner.
Moffatt, S.L. *See* Proft, Moffatt, Berkahn, and Fraser.
Moine, G. *See* Léonetti, Galon, Thai, Sautès-Fridman, Moine, and Ménez.
Mok, C.-L., Gil-Gómez, G., Williams, O., Coles, M., Taga, S., Tolaini, M., Norton, T., Kioussis, D., and Brady, H.J.M. Bad can act as a key regulator of T cell apoptosis and T cell development. 575.
Mongkolsapay, J. *See* Xu, Laffert, Screaton, Kraft, Wolf, Kolanus, Mongkolsapay, McMichael, and Baur.
Montesano, M.A., Colley, D.G., Eloi-Santos, S., Freeman, G.L., Jr., and Secor, W.E. Neonatal idiotypic exposure alters subsequent cytokine, pathology, and survival patterns in experimental *Schistosoma mansoni* infections. 637.
Moore, K.J. *See* Qureshi, Larivière, Leveque, Clermont, Moore, Gros, and Malo.
Moorman, N.J. *See* Leib, Harrison, Laslo, Machalek, Moorman, and Virgin.
Moreno, M.B. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.
Moretta, A. *See* Cantoni, Bottino, Vitale, Pessino, Augugliaro, Malaspina, Parolini, Moretta, Moretta, and Biassoni.
Moretta, L. *See* Cantoni, Bottino, Vitale, Pessino, Augugliaro, Malaspina, Parolini, Moretta, Moretta, and Biassoni.
Morgan, T.M. *See* Cerwenka, Morgan, Harmsen, and Dutton.
Moriuchi, R. *See* Maeda, Yamada, Moriuchi, Sugahara, Tsuruda, Joh, Atogami, Tsukasaki, Tomonaga, and Kamihira.
Morton, H.C., van Zandbergen, G., van Kooten, C., Howard, C.J., van de Winkel, J.G.J., and Brandtzaeg, P. Immunoglobulin-binding sites of human FcαRI (CD89) and boving Fcγ2R are located in their membrane-distal extracellular domains. 1715.
Moser, M. *See* Maldonado-López, De Smedt, Michel, Godfroid, Pajak, Heirman, Thielemans, Leo, Urbain, and Moser.
Mostowfi, M. *See* Centurion-Lara, Castro, Barrett, Cameron, Mostowfi, Van Voorhis, and Lukehart.
Motoyama, N., Kimura, T., Takahashi, T., Watanabe, T., and Nakano, T. *bcl-x* prevents apoptotic cell death of both primitive and definitive erythrocytes at the end of maturation. 1691.
Moyle, M. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Muller, W. *See* Lefrançois, Parker, Olson, Muller, Wagner, and Puddington.
Müller, W. *See* Novobrantseva, Martin, Pelanda, Müller, Rajewsky, and Ehlich.
Munn, D.H., Shafizadeh, E., Attwood, J.T., Bondarev, I., Pashine, A., and Mellor, A.L. Inhibition of T cell proliferation by macrophage tryptophan catabolism. 1363.
Murdoch, B. *See* Bhatia, Bonnet, Wu, Murdoch, Wrana, Gallacher, and Dick.
Murphy, K.M. *See* Carter and Murphy.
Murphy, P.M. *See* Broxmeyer, Cooper, Hangoc, Gao, and Murphy.
— *See* Gao, Lee, and Murphy.
— *See* Su, Gong, Gao, Shen, Murphy, Oppenheim, and Wang.
Murray, H.W., and Nathan, C.F. Macrophage microbicidal mechanisms in vivo: reactive nitrogen versus oxygen intermediates in the killing of intracellular visceral *Leishmania donovani*. 741.
Murre, C. *See* Bain, Romanow, Albers, Havran, and Murre.

N

Nadler, L.M. *See* Schultze, Michalak, Lowne, Wong, Gilleece, Gribben, and Nadler.
Nagai, Y. *See* Shimazu, Akashi, Ogata, Nagai, Fukudome, Miyake, and Kimoto.
Nagayama, M. *See* Iadecola, Salkowski, Zhang, Aber, Nagayama, Vogel, and Ross.
Naito, M. *See* Miyazaki, Hirokami, Matsuhashi, Takatsuka, and Naito.
Nakajima, K. *See* Kiuchi, Nakajima, Ichiba, Fukada, Narimatsu, Mizuno, Hibi, and Hirano.
Nakamura, H. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Nakamura, M. *See* Ohteki, Fukao, Suzue, Maki, Ito, Nakamura, and Koyasu.
Nakamura, M.C., Linnemeyer, P.A., Niemi, E.C., Mason, L.H., Ortaldo, J.R., Ryan, J.C., and Seaman, W.E. Mouse Ly-49D recognizes H-2D^{d} and activates natural killer cell cytotoxicity. 493.
Nakano, H. *See* Gunn, Kyuwa, Tam, Kakiuchi, Matsuzawa, Williams, and Nakano.
Nakano, T. *See* Motoyama, Kimura, Takahashi, Watanabe, and Nakano.
Nakayama, M. *See* Kayagaki, Yamaguchi, Nakayama, Eto, Okumura, and Yagita.
Narimatsu, M. *See* Kiuchi, Nakajima, Ichiba, Fukada, Narimatsu, Mizuno, Hibi, and Hirano.
Nathan, C.F. *See* Murray and Nathan.
Nedospasov, S.A. *See* Endres, Alimzhanov, Plitz, Fütterer, Kosco-Vilbois, Nedospasov, Rajewsky, and Pfeffer.
Neuberger, M.S. *See* O'Keefe, Williams, Batista, and Neuberger.
Ngo, K. *See* Kanakaraj, Ngo, Wu, Angulo, Ghazal, Harris, Siekierka, Peterson, and Fung-Leung.
Ngo, V.N., Korner, H., Gunn, M.D., Schmidt, K.N., Riminton, D.S., Cooper, M.D., Browning, J.L., Sedgwick, J.D., and Cyster, J.G. Lymphotoxin α/β and tumor necrosis factor are required for stromal cell expression of homing chemokines in B and T cell areas of the spleen. 403.
Nicholson, I.C. *See* Popov, Zou, Xian, Nicholson, and Brüggemann.
Nicolas, J.-F. *See* Kehren, Desvignes, Krasteva, Ducluzeau, Assossou, Horand, Hahne, Kägi, Kaiserlian, and Nicolas.
Nieborowska-Skorska, M., Wasik, M.A., Slupianek, A., Salomoni, P., Kitamura, T., Calabretta, B., and Skorski, T. Signal transducer and activator of transcription (STAT)5 activation by BCR/ABL is dependent on intact src homology (SH)3 and SH2 domains of BCR/ABL and is required for leukemogenesis. 1229.
Niemi, E.C. *See* Nakamura, Linnemeyer, Niemi, Mason, Ortaldo, Ryan, and Seaman.
Nilsson, S.K., Dooner, M.S., Weier, H.-U., Frenkel, B., Lian, J.B., Stein, G.S., and Quesenberry, P.J. Cells capable of bone production engraft from whole bone marrow transplants in non-ablated mice. 729.

Nishimura, M.I. *See* Pieper, Christian, Gonzales, Nishimura, Gupta, Settlage, Shabanowitz, Rosenberg, Hunt, and Topalian.
Nishimura, S.-i. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
Nishimura, T. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
Nitschke, L., Floyd, H., Ferguson, D.J.P., and Crocker, P.R. Identification of CD22 ligands on bone marrow sinusoidal endothelium implicated in CD22-dependent homing of recirculating B cells. 1513.
Noben-Trauth, N. *See* Schüler, Qin, Ibe, Noben-Trauth, and Blankenstein.
Nolan, G.P. *See* Park, Nolan, and Sun.
Noll, T., Wozniak, G., McCarson, K., Hajimohammad, A., Metzner, H.J., Inserte, J., Kummer, W., Hehrlein, F.W., and Piper, H.M. Effect of factor XIII on endothelial barrier function. 1373.
Noppen, C. *See* Manici, Sturniolo, Imro, Hammer, Sinigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.
Norton, T. *See* Mok, Gil-Gómez, Williams, Coles, Taga, Tolaini, Norton, Kioussis, and Brady.
Novick, D. *See* Jones, Novick, Horiuchi, Yamamoto, Szalai, and Fuller.
Novobrantseva, T.I., Martin, V.M., Pelanda, R., Müller, W., Rajewsky, K., and Ehlich, A. Rearrangement and expression of immunoglobulin light chain genes can precede heavy chain expression during normal B cell development in mice. 75. Correction. 1361.
Nowak, M.A. *See* Hockett, Kilby, Derdeyn, Saag, Sillers, Squires, Chiz, Nowak, Shaw, and Bucy.

O

Oberkofler, H. *See* Mayer, Appenzeller, Seelbach, Achatz, Oberkofler, Breitenbach, Blaser, and Crameri.
Oess, S. *See* Hildt and Oess.
Offringa, R. *See* Toes, Ossendorp, Offringa, and Melief.
Ogata, H. *See* Shimazu, Akashi, Ogata, Nagai, Fukudome, Miyake, and Kimoto.
Ohmi, Y. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
Ohta, A. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
Ohteki, T., Fukao, T., Suzue, K., Maki, C., Ito, M., Nakamura, M., and Koyasu, S. Interleukin 12–dependent interferon γ production by CD8α$^+$ lymphoid dendritic cells. 1981.
O'Keefe, T.L., Williams, G.T., Batista, F.D., and Neuberger, M.S. Deficiency in CD22, a B cell–specific inhibitory receptor, is sufficient to predispose to development of high affinity autoantibodies. 1307.
Okumura, K. *See* Kayagaki, Yamaguchi, Nakayama, Eto, Okumura, and Yagita.
— *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
Olson, S. *See* Lefrançois, Parker, Olson, Muller, Wagner, and Puddington.
Ono, M. *See* Clynes, Maizes, Guinamard, Ono, Takai, and Ravetch.
— *See* Ujike, Ishikawa, Ono, Yuasa, Yoshino, Fukumoto, Ravetch, and Takai.
— *See* Yuasa, Kubo, Yoshino, Ujike, Matsumura, Ono, Ravetch, and Takai.
Oppenheim, J.J. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
— *See* Su, Gong, Gao, Shen, Murphy, Oppenheim, and Wang.
Oropeza-Wekerle, R.-L. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Ortaldo, J.R. *See* Nakamura, Linnemeyer, Niemi, Mason, Ortaldo, Ryan, and Seaman.
Ossendorp, F. *See* Toes, Ossendorp, Offringa, and Melief.
Otsu, K. *See* Yamashita, Hoshida, Otsu, Asahi, Kuzuya, and Hori.
Otto, F. *See* Berlin-Rufenach, Otto, Mathies, Westermann, Owen, Hamann, and Hogg.
Ouaaz, F., Li, M., and Beg, A.A. A critical role for the RelA subunit of nuclear factor κB in regulation of multiple immune-response genes and in Fas-induced cell death. 999.
Owen, M.J. *See* Berlin-Rufenach, Otto, Mathies, Westermann, Owen, Hamann, and Hogg.
Owen-Schaub, L.B. *See* Hill, Shreedhar, Kripke, and Owen-Schaub.
Oxenius, A. *See* Bachmann, Wong, Josien, Steinman, Oxenius, and Choi.
Ozawa, M., Ferenczi, K., Kikuchi, T., Cardinale, I., Austin, L.M., Coven, T.R., Burack, L.H., and Krueger, J.G. 312-nanometer ultraviolet B light (narrow-band UVB) induces apoptosis of T cells within psoriatic lesions. 711.

P

Pagliei, S. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Pajak, B. *See* Maldonado-López, De Smedt, Michel, Godfroid, Pajak, Heirman, Thielemans, Leo, Urbain, and Moser.
Pakala, S.V., Chivetta, M., Kelly, C.B., and Katz, J.D. In autoimmune diabetes the transition from benign to pernicious insulitis requires an islet cell response to tumor necrosis factor α. 1053.
Palecanda, A., Paulauskis, J., Al-Mutairi, E., Imrich, A., Qin, G., Suzuki, H., Kodama, T., Tryggvason, K., Koziel, H., and Kobzik, L. Role of the scavenger receptor MARCO in alveolar macrophage binding of unopsonized environmental particles. 1497.
Palmer, E. *See* Stotz, Bolliger, Carbone, and Palmer.
Pamer, E.G. *See* Busch and Pamer.
Panjwani, N. *See* Akbari, Panjwani, Garcia, Tascon, Lowrie, and Stockinger.
Panus, J.F. *See* McHeyzer-Williams, Panus, Mikszta, and McHeyzer-Williams.
Park, S.-H. *See* Chiu, Jayawardena, Weiss, Lee, Park, Dautry-Varsat, and Bendelac.
— *See* Tilloy, Treiner, Park, Garcia, Lemonnier, de la Salle, Bendelac, Bonneville, and Lantz.
Park, S.T., Nolan, G.P., and Sun, X.-H. Growth inhibition and apoptosis due to restoration of E2A activity in T cell acute lymphoblastic leukemia cells. 501.
Parke, E.A. *See* Manning, Parke, Teyton, and Kranz.
Parker, C.M. *See* Lefrançois, Parker, Olson, Muller, Wagner, and Puddington.
Parolini, S. *See* Cantoni, Bottino, Vitale, Pessino, Augugliaro, Malaspina, Parolini, Moretta, Moretta, and Biassoni.
Pashine, A. *See* Munn, Shafizadeh, Attwood, Bondarev, Pashine, and Mellor.
Pasvol, G. *See* Wilkinson, Patel, Llewelyn, Hirsch, Pasvol, Snounou, Davidson, and Toossi.
Patel, D.D. *See* Sempowski, Lee, Scearce, Patel, and Haynes.
Patel, P. *See* Wilkinson, Patel, Llewelyn, Hirsch, Pasvol, Snounou, Davidson, and Toossi.
Patterson, B. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Paulauskis, J. *See* Palecanda, Paulauskis, Al-Mutairi, Imrich, Qin, Suzuki, Kodama, Tryggvason, Koziel, and Kobzik.
Pavlakis, G.N. *See* Kino, Gragerov, Kopp, Stauber, Pavlakis, and Chrousos.
Pavlovic, S. *See* Tanguay, Colarusso, Pavlovic, Irigoyen, Howard, Bartek, Chiles, and Rothstein.
Pekkari, K. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.

Pelanda, R. *See* Novobrantseva, Martin, Pelanda, Müller, Rajewsky, and Ehlich.
Peng, X.-X. *See* Zhang, Chan, Peng, and Tan.
Penninger, J.M. *See* Hakem, Sasaki, Kozieradzki, and Penninger.
Perelson, A.S. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Perreault, C. *See* Dulude, Roy, and Perreault.
Persson, C.G.A. *See* Korsgren, Persson, Sundler, Bjerke, Hansson, Chambers, Hong, Van Kaer, Ljunggren, and Korsgren.
Pessino, A. *See* Cantoni, Bottino, Vitale, Pessino, Augugliaro, Malaspina, Parolini, Moretta, Moretta, and Biassoni.
Petasis, N.A. *See* Hachicha, Pouliot, Petasis, and Serhan.
Peterson, P.A. *See* Kanakaraj, Ngo, Wu, Angulo, Ghazal, Harris, Siekierka, Peterson, and Fung-Leung.
Peterson, R. *See* Cousens, Peterson, Hsu, Dorner, Altman, Ahmed, and Biron.
Pfeffer, K. *See* Endres, Alimzhanov, Plitz, Fütterer, Kosco-Vilbois, Nedospasov, Rajewsky, and Pfeffer.
Pfeifer, A. *See* Massberg, Sausbier, Klatt, Bauer, Pfeifer, Siess, Fässler, Ruth, Krombach, and Hofmann.
Pflumio, F. *See* Robin, Pflumio, Vainchenker, and Coulombel.
Pieper, R., Christian, R.E., Gonzales, M.I., Nishimura, M.I., Gupta, G., Settlage, R.E., Shabanowitz, J., Rosenberg, S.A., Hunt, D.F., and Topalian, S.L. Biochemical identification of a mutated human melanoma antigen recognized by $CD4^+$ T cells. 757.
Pingel, S., Launois, P., Fowell, D.J., Turck, C.W., Southwood, S., Sette, A., Glaichenhaus, N., Louis, J.A., and Locksley, R.M. Altered ligands reveal limited plasticity in the T cell response to a pathogenic epitope. 1111.
Piper, H.M. *See* Noll, Wozniak, McCarson, Hajimohammad, Metzner, Inserte, Kummer, Hehrlein, and Piper.
Plitz, T. *See* Endres, Alimzhanov, Plitz, Fütterer, Kosco-Vilbois, Nedospasov, Rajewsky, and Pfeffer.
Ploemacher, R.E. *See* Hermans, Antonissen, Ward, Mayen, Ploemacher, and Touw.
Popov, A.V., Zou, X., Xian, J., Nicholson, I.C., and Brüggemann, M. A human immunoglobulin λ locus is similarly well expressed in mice and humans. 1611.
Porcelli, S.A. *See* Grant, Degano, Rosat, Stenger, Modlin, Wilson, Porcelli, and Brenner.
Potts, K.M. *See* Mandik-Nayak, Seo, Sokol, Potts, Bui, and Erikson.
Pouliot, M. *See* Hachicha, Pouliot, Petasis, and Serhan.
Prévost, M.-C. *See* Susin, Lorenzo, Zamzami, Marzo, Brenner, Larochette, Prévost, Alzari, and Kroemer.
Proft, T., Moffatt, S.L., Berkahn, C.J., and Fraser, J.D. Identification and characterization of novel superantigens from *Streptococcus pyogenes*. 89.
Protti, M.P. *See* Manici, Sturniolo, Imro, Hammer, Sinigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.
Puddington, L. *See* Lefrançois, Parker, Olson, Muller, Wagner, and Puddington.

Q

Qadri, A. *See* Thatte, Qadri, Radu, and Ward.
Qin, G. *See* Palecanda, Paulauskis, Al-Mutairi, Imrich, Qin, Suzuki, Kodama, Tryggvason, Koziel, and Kobzik.
Qin, Z. *See* Schüler, Qin, Ibe, Noben-Trauth, and Blankenstein.
Quesenberry, P.J. *See* Nilsson, Dooner, Weier, Frenkel, Lian, Stein, and Quesenberry.
Qureshi, S.T., Larivière, L., Leveque, G., Clermont, S., Moore, K.J., Gros, P., and Malo, D. Endotoxin-tolerant mice have mutations in Toll-like receptor 4 (*Tlr4*). 615. Correction. 1519.

R

Radu, C. *See* Thatte, Qadri, Radu, and Ward.
Rajagopalan, S., and Long, E.O. A human histocompatibility leukocyte antigen (HLA)-G–specific receptor expressed on all natural killer cells. 1093.
Rajewsky, K. *See* Endres, Alimzhanov, Plitz, Fütterer, Kosco-Vilbois, Nedospasov, Rajewsky, and Pfeffer.
— *See* Novobrantseva, Martin, Pelanda, Müller, Rajewsky, and Ehlich.
Randhawa, S. *See* Afford, Randhawa, Eliopoulos, Hubscher, Young, and Adams.
Ratnofsky, S. *See* Marie-Cardine, Kirchgessner, Bruyns, Shevchenko, Mann, Autschbach, Ratnofsky, Meuer, and Schraven.
Ravetch, J.V. *See* Clynes, Maizes, Guinamard, Ono, Takai, and Ravetch.
— *See* Guinamard, Signoret, Masamichi, Marsh, Kurosaki, and Ravetch.
— *See* Kubagawa, Chen, Ho, Shimada, Gartland, Mashburn, Uehara, Ravetch, and Cooper.
— *See* Ujike, Ishikawa, Ono, Yuasa, Yoshino, Fukumoto, Ravetch, and Takai.
— *See* Yuasa, Kubo, Yoshino, Ujike, Matsumura, Ono, Ravetch, and Takai.
Reay, P.A. *See* Baldwin, Reay, Wu, Farr, and Davis.
Regnault, A., Lankar, D., Lacabanne, V., Rodriguez, A., Théry, C., Rescigno, M., Saito, T., Verbeek, S., Bonnerot, C., Ricciardi-Castagnoli, P., and Amigorena, S. Fcγ receptor–mediated induction of dendritic cell maturation and major histocompatibility complex class I–restricted antigen presentation after immune complex internalization. 371.
Reizis, B., and Leder, P. Expression of the mouse pre-T cell receptor α gene is controlled by an upstream region containing a transcriptional enhancer. 1669.
Renauld, J.-C. *See* Vink, Warnier, Brombacher, and Renauld.
Rennert, P.D. *See* Dohi, Fujihashi, Rennert, Iwatani, Kiyono, and McGhee.
Rerko, R.M. *See* Heinzel and Rerko.
Rescigno, M. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.
Reynaud, C.-A. *See* Cocea, De Smet, Saghatchian, Fillatreau, Ferradini, Schurmans, Weill, and Reynaud.
Ricciardi-Castagnoli, P. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.
Rietschel, E.T. *See* Mattern, Girroleit, Flad, Rietschel, and Ulmer.
Riminton, D.S. *See* Ngo, Korner, Gunn, Schmidt, Riminton, Cooper, Browning, Sedgwick, and Cyster.
Rizzo, L.V. *See* Tarrant, Silver, Wahlsten, Rizzo, Chan, Wiggert, and Caspi.
Robert, C., Fuhlbrigge, R.C., Kieffer, J.D., Ayehunie, S., Hynes, R.O., Cheng, G., Grabbe, S., von Andrian, U.H., and Kupper, T.S. Interaction of dendritic cells with skin endothelium: a new perspective on immunosurveillance. 627.
Robin, C., Pflumio, F., Vainchenker, W., and Coulombel, L. Identification of lymphomyeloid primitive progenitor cells in fresh human cord blood and in the marrow of non-obese diabetic–severe combined immunodeficient (NOD-SCID) mice transplanted with human $CD34^+$ cord blood cells. 1601.
Rocha, B. *See* Di Santo, Aifantis, Rosmaraki, Garcia, Feinberg, Fehling, Fischer, von Boehmer, and Rocha.
Rodriguez, A. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.
Romanow, W.J. *See* Bain, Romanow, Albers, Havran, and Murre.
Romero, P. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
— *See* Valmori, Gileadi, Servis, Dunbar, Cerottini, Romero, Cerundolo, and Lévy.
Romines, B. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Ronchese, F. *See* McCoy, Hermans, Fraser, Le Gros, and Ronchese.
Rosat, J.-P. *See* Grant, Degano, Rosat, Stenger, Modlin, Wilson, Porcelli, and Brenner.
Rosenberg, S.A. *See* Pieper, Christian, Gonzales, Nishimura, Gupta, Settlage, Shabanowitz, Rosenberg, Hunt, and Topalian.
— *See* Wang, Wang, and Rosenberg.

Rosmaraki, E. *See* Di Santo, Aifantis, Rosmaraki, Garcia, Feinberg, Fehling, Fischer, von Boehmer, and Rocha.
Ross, M.E. *See* Iadecola, Salkowski, Zhang, Aber, Nagayama, Vogel, and Ross.
Rothstein, T.L. *See* Schneider, Fischer, Donohoe, Colarusso, and Rothstein.
— *See* Tanguay, Colarusso, Pavlovic, Irigoyen, Howard, Bartek, Chiles, and Rothstein.
Roy, D.-C. *See* Dulude, Roy, and Perreault.
Ruedl, C., Kopf, M., and Bachmann, M.F. $CD8^+$ T cells mediate CD40-independent maturation of dendritic cells in vivo. 1875.
Ruggeri, L. *See* Liberatore, Capanni, Albi, Volpi, Urbani, Ruggeri, Mencarelli, Grignani, and Velardi.
Ruiz, P.J., Garren, H., Hirschberg, D.L., Langer-Gould, A.M., Levite, M., Karpuj, M.V., Southwood, S., Sette, A., Conlon, P., and Steinman, L. Microbial epitopes act as altered peptide ligands to prevent experimental autoimmune encephalomyelitis. 1275.
Russell, J.H. *See* Sabelko-Downes, Cross, and Russell.
Ruth, P. *See* Massberg, Sausbier, Klatt, Bauer, Pfeifer, Siess, Fässler, Ruth, Krombach, and Hofmann.
Ryan, J.C. *See* Nakamura, Linnemeyer, Niemi, Mason, Ortaldo, Ryan, and Seaman.

S

Saag, M.S. *See* Hockett, Kilby, Derdeyn, Saag, Sillers, Squires, Chiz, Nowak, Shaw, and Bucy.
Sabelko-Downes, K.A., Cross, A.H., and Russell, J.H. Dual role for Fas ligand in the initiation of and recovery from experimental allergic encephalomyelitis. 1195.
Safrit, J.T. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Saghatchian, M. *See* Cocea, De Smet, Saghatchian, Fillatreau, Ferradini, Schurmans, Weill, and Reynaud.
Sagi-Eisenberg, R. *See* Baram, Adachi, Medalia, Tuvim, Dickey, Mekori, and Sagi-Eisenberg.
Saito, T. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.
Sakakibara, Y. *See* Cella, Salio, Sakakibara, Langen, Julkunen, and Lanzavecchia.
Salio, M. *See* Cella, Salio, Sakakibara, Langen, Julkunen, and Lanzavecchia.
Salkowski, C.A. *See* Iadecola, Salkowski, Zhang, Aber, Nagayama, Vogel, and Ross.
Sallusto, F., and Lanzavecchia, A. Mobilizing dendritic cells for tolerance, priming, and chronic inflammation. 611.
Salomoni, P. *See* Nieborowska-Skorska, Wasik, Slupianek, Salomoni, Kitamura, Calabretta, and Skorski.
Sandberg, J.K., Kärre, K., and Glas, R. Recognition of the major histocompatibility complex restriction element modulates $CD8^+$ T cell specificity and compensates for loss of T cell receptor contacts with the specific peptide. 883.
Santoro, F. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.
Sarma, S., Guo, Y., Guilloux, Y., Lee, C., Bai, X.-F., and Liu, Y. Cytotoxic T lymphocytes to an unmutated tumor rejection antigen P1A: normal development but restrained effector function in vivo. 811.
Sasaki, T. *See* Hakem, Sasaki, Kozieradzki, and Penninger.
Sasaki, Y. *See* Asada, Ishii, Sasaki, Endo, Kasai, Tanaka, Takeshita, Tsuchiya, Konno, and Sugamura.
Sato, M. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
Satoskar, A.R. *See* Bozza, Satoskar, Lin, Lu, Humbles, Gerard, and David.
Sausbier, M. *See* Massberg, Sausbier, Klatt, Bauer, Pfeifer, Siess, Fässler, Ruth, Krombach, and Hofmann.
Sautès-Fridman, C. *See* Léonetti, Galon, Thai, Sautès-Fridman, Moine, and Ménez.
Sawai, T. *See* Yuda, Sawai, and Chinzei.
Scalia, R., Armstead, V.E., Minchenko, A.G., and Lefer, A.M. Essential role of P-selectin in the initiation of the inflammatory response induced by hemorrhage and reinfusion. 931.
Scearce, R.M. *See* Sempowski, Lee, Scearce, Patel, and Haynes.
Schmidt, K.N. *See* Ngo, Korner, Gunn, Schmidt, Riminton, Cooper, Browning, Sedgwick, and Cyster.
Schneider, P., MacKay, F., Steiner, V., Hofmann, K., Bodmer, J.-L., Holler, N., Ambrose, C., Lawton, P., Bixler, S., Acha-Orbea, H., Valmori, D., Romero, P., Werner-Favre, C., Zubler, R.H., Browning, J.L., and Tschopp, J. BAFF, a novel ligand of the tumor necrosis factor family, stimulates B cell growth. 1747.
Schneider, T.J., Fischer, G.M., Donohoe, T.J., Colarusso, T.P., and Rothstein, T.L. A novel gene coding for a Fas apoptosis inhibitory molecule (FAIM) isolated from inducibly Fas-resistant B lymphocytes. 949.
Schönbeck, U., Mach, F., Sukhova, G.K., Atkinson, E., Levesque, E., Herman, M., Graber, P., Basset, P., and Libby, P. Expression of stromelysin-3 in atherosclerotic lesions: regulation via CD40–CD40 ligand signaling in vitro and in vivo. 843.
Schraven, B. *See* Marie-Cardine, Kirchgessner, Bruyns, Shevchenko, Mann, Autschbach, Ratnofsky, Meuer, and Schraven.
Schüler, T., Qin, Z., Ibe, S., Noben-Trauth, N., and Blankenstein, T. T helper cell type 1–associated and cytotoxic T lymphocyte–mediated tumor immunity is impaired in interleukin 4–deficient mice. 803.
Schultze, J.L., Michalak, S., Lowne, J., Wong, A., Gilleece, M.H., Gribben, J.G., and Nadler, L.M. Human non-germinal center B cell interleukin (IL)-12 production is primarily regulated by T cell signals CD40 ligand, interferon γ, and IL-10: role of B cells in the maintenance of T cell responses. 1.
Schurmans, S. *See* Cocea, De Smet, Saghatchian, Fillatreau, Ferradini, Schurmans, Weill, and Reynaud.
Scott, J.A. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Screaton, G.R. *See* Xu, Laffert, Screaton, Kraft, Wolf, Kolanus, Mongkolsapay, McMichael, and Baur.
Seaman, W.E. *See* Nakamura, Linnemeyer, Niemi, Mason, Ortaldo, Ryan, and Seaman.
Secor, W.E. *See* Montesano, Colley, Eloi-Santos, Freeman, and Secor.
Seddon, B., and Mason, D. Peripheral autoantigen induces regulatory T cells that prevent autoimmunity. 877.
—, **and Mason, D.** Regulatory T cells in the control of autoimmunity: the essential role of transforming growth factor β and interleukin 4 in the prevention of autoimmune thyroiditis in rats by peripheral $CD4^+CD45RC^-$ cells and $CD4^+CD8^-$ thymocytes. 279.
Sedger, L.M. *See* Griffith, Wiley, Kubin, Sedger, Maliszewski, and Fanger.
Sedgwick, J.D. *See* Ngo, Korner, Gunn, Schmidt, Riminton, Cooper, Browning, Sedgwick, and Cyster.
Seelbach, H. *See* Mayer, Appenzeller, Seelbach, Achatz, Oberkofler, Breitenbach, Blaser, and Crameri.
Segal, B.M. *See* Chang, Shevach, and Segal.
Sempowski, G.D., Lee, D.M., Scearce, R.M., Patel, D.D., and Haynes, B.F. Resistance of CD7-deficient mice to lipopolysaccharide-induced shock syndromes. 1011.
Seo, S.-j. *See* Mandik-Nayak, Seo, Sokol, Potts, Bui, and Erikson.
Sergi, R. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Serhan, C.N. *See* Hachicha, Pouliot, Petasis, and Serhan.
Servis, C. *See* Valmori, Gileadi, Servis, Dunbar, Cerottini, Romero, Cerundolo, and Lévy.
Sette, A. *See* Pingel, Launois, Fowell, Turck, Southwood, Sette, Glaichenhaus, Louis, and Locksley.
— *See* Ruiz, Garren, Hirschberg, Langer-Gould, Levite, Karpuj, Southwood, Sette, Conlon, and Steinman.
Settlage, R.E. *See* Pieper, Christian, Gonzales, Nishimura, Gupta, Settlage, Shabanowitz, Rosenberg, Hunt, and Topalian.
Shabanowitz, J. *See* Pieper, Christian, Gonzales, Nishimura, Gupta, Settlage, Shabanowitz, Rosenberg, Hunt, and Topalian.

Shafizadeh, E. *See* Munn, Shafizadeh, Attwood, Bondarev, Pashine, and Mellor.
Shan, L. *See* Endres, Garlisi, Xiao, Shan, and Hedrick.
Sharpe, A.H. *See* Mandelbrot, McAdam, and Sharpe.
Shaw, A.C., Swat, W., Ferrini, R., Davidson, L., and Alt, F.W. Activated Ras signals developmental progression of recombinase-activating gene (RAG)-deficient pro-B lymphocytes. 123.
Shaw, G.M. *See* Hockett, Kilby, Derdeyn, Saag, Sillers, Squires, Chiz, Nowak, Shaw, and Bucy.
Shen, W. *See* Su, Gong, Gao, Shen, Murphy, Oppenheim, and Wang.
Sher, A. *See* Yap and Sher.
Shevach, E.M. *See* Chang, Shevach, and Segal.
Shevchenko, A. *See* Marie-Cardine, Kirchgessner, Bruyns, Shevchenko, Mann, Autschbach, Ratnofsky, Meuer, and Schraven.
Shi, L. *See* MacDonald, Shi, Vande Velde, Lieberman, and Greenberg.
Shimada, T. *See* Kubagawa, Chen, Ho, Shimada, Gartland, Mashburn, Uehara, Ravetch, and Cooper.
Shimazu, R., Akashi, S., Ogata, H., Nagai, Y., Fukudome, K., Miyake, K., and Kimoto, M. MD-2, a molecule that confers lipopolysaccharide responsiveness on Toll-like receptor 4. 1777.
Shlomchik, M.J. *See* Chan, Hannum, Haberman, Madaio, and Shlomchik.
Shreedhar, V.K. *See* Hill, Shreedhar, Kripke, and Owen-Schaub.
Sibley, R. *See* Zeng, Lewis, Dejbakhsh-Jones, Lan, García-Ojeda, Sibley, and Strober.
Siekierka, J.J. *See* Kanakaraj, Ngo, Wu, Angulo, Ghazal, Harris, Siekierka, Peterson, and Fung-Leung.
Siess, W. *See* Massberg, Sausbier, Klatt, Bauer, Pfeifer, Siess, Fässler, Ruth, Krombach, and Hofmann.
Signoret, N. *See* Guinamard, Signoret, Masamichi, Marsh, Kurosaki, and Ravetch.
Sillers, M. *See* Hockett, Kilby, Derdeyn, Saag, Sillers, Squires, Chiz, Nowak, Shaw, and Bucy.
Silver, P.B. *See* Tarrant, Silver, Wahlsten, Rizzo, Chan, Wiggert, and Caspi.
Singer, A. *See* Ashe, Wiest, Abe, and Singer.
Sinigaglia, F. *See* Manici, Sturniolo, Imro, Hammer, Sinigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.
Skorski, T. *See* Nieborowska-Skorska, Wasik, Slupianek, Salomoni, Kitamura, Calabretta, and Skorski.
Slupianek, A. *See* Nieborowska-Skorska, Wasik, Slupianek, Salomoni, Kitamura, Calabretta, and Skorski.
Smith, A.L., and Fazekas de St. Groth, B. Antigen-pulsed CD8α$^+$ dendritic cells generate an immune response after subcutaneous injection without homing to the draining lymph node. 593.
Snounou, G. *See* Wilkinson, Patel, Llewelyn, Hirsch, Pasvol, Snounou, Davidson, and Toossi.
Sokol, C. *See* Mandik-Nayak, Seo, Sokol, Potts, Bui, and Erikson.
Sollami, G. *See* Degermann, Sollami, and Karjalainen.
Solow, S.A. *See* Law, Ewings, Chaudhary, Solow, Yun, Marshall, Hood, and Clark.
Southwood, S. *See* Pingel, Launois, Fowell, Turck, Southwood, Sette, Glaichenhaus, Louis, and Locksley.
— *See* Ruiz, Garren, Hirschberg, Langer-Gould, Levite, Karpuj, Southwood, Sette, Conlon, and Steinman.
Spagnoli, G. *See* Manici, Sturniolo, Imro, Hammer, Sinigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.
Squires, K. *See* Hockett, Kilby, Derdeyn, Saag, Sillers, Squires, Chiz, Nowak, Shaw, and Bucy.
Srivastava, P.K. *See* Basu and Srivastava.
— *See* Chandawarkar, Wagh, and Srivastava.
Stadelmann, C. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Stahl, P.D. *See* Linehan, Martínez-Pomares, Stahl, and Gordon.
Stauber, R.H. *See* Kino, Gragerov, Kopp, Stauber, Pavlakis, and Chrousos.
Stein, G.S. *See* Nilsson, Dooner, Weier, Frenkel, Lian, Stein, and Quesenberry.
Stein, J.V., Cheng, G., Stockton, B.M., Fors, B.P., Butcher, E.C., and von Andrian, U.H. L-selectin–mediated leukocyte adhesion in vivo: microvillous distribution determines tethering efficiency, but not rolling velocity. 37.
Steiner, V. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
Steinman, L. Absence of "original antigenic sin" in autoimmunity provides an unforeseen platform for immune therapy. 1021.
— *See* Ruiz, Garren, Hirschberg, Langer-Gould, Levite, Karpuj, Southwood, Sette, Conlon, and Steinman.
Steinman, R.M. *See* Bachmann, Wong, Josien, Steinman, Oxenius, and Choi.
Stenger, S. *See* Grant, Degano, Rosat, Stenger, Modlin, Wilson, Porcelli, and Brenner.
Stockinger, B. *See* Akbari, Panjwani, Garcia, Tascon, Lowrie, and Stockinger.
Stockton, B.M. *See* Stein, Cheng, Stockton, Fors, Butcher, and von Andrian.
Stoddart, C.A. *See* Gobbi, Stoddart, Malnati, Locatelli, Santoro, Abbey, Bare, Linquist-Stepps, Moreno, Herndier, Lusso, and McCune.
Stohlman, S.A. *See* Cua, Groux, Hinton, Stohlman, and Coffman.
Stotz, S.H., Bolliger, L., Carbone, F.R., and Palmer, E. T cell receptor (TCR) antagonism without a negative signal: evidence from T cell hybridomas expressing two independent TCRs. 253.
Stremmel, C., Greenfield, E.A., Howard, E., Freeman, G.J., and Kuchroo, V.K. B7-2 expressed on EL4 lymphoma suppresses antitumor immunity by an interleukin 4–dependent mechanism. 919.
Strober, S. *See* Zeng, Lewis, Dejbakhsh-Jones, Lan, García-Ojeda, Sibley, and Strober.
Strominger, J.L. *See* Davis, Mandelboim, Luque, Baba, Boyson, and Strominger.
Stroobant, V. *See* Chaux, Vantomme, Stroobant, Thielemans, Corthals, Luiten, Eggermont, Boon, and van der Bruggen.
Sturniolo, T. *See* Manici, Sturniolo, Imro, Hammer, Sinigaglia, Noppen, Spagnoli, Mazzi, Bellone, Dellabona, and Protti.
Su, S.B., Gong, W., Gao, J.-L., Shen, W., Murphy, P.M., Oppenheim, J.J., and Wang, J.M. A seven-transmembrane, G protein–coupled receptor, FPRL1, mediates the chemotactic activity of serum amyloid A for human phagocytic cells. 395.
Sugahara, K. *See* Maeda, Yamada, Moriuchi, Sugahara, Tsuruda, Joh, Atogami, Tsukasaki, Tomonaga, and Kamihira.
Sugamura, K. *See* Asada, Ishii, Sasaki, Endo, Kasai, Tanaka, Takeshita, Tsuchiya, Konno, and Sugamura.
Sukhova, G.K. *See* Schönbeck, Mach, Sukhova, Atkinson, Levesque, Herman, Graber, Basset, and Libby.
Sun, X.-H. *See* Park, Nolan, and Sun.
Sun, Y., and Clark, E.A. Expression of the *c-myc* proto-oncogene is essential for HIV-1 infection in activated T cells. 1391.
Sundler, F. *See* Korsgren, Persson, Sundler, Bjerke, Hansson, Chambers, Hong, Van Kaer, Ljunggren, and Korsgren.
Susin, S.A., Lorenzo, H.K., Zamzami, N., Marzo, I., Brenner, C., Larochette, N., Prévost, M.-C., Alzari, P.M., and Kroemer, G. Mitochondrial release of caspase-2 and -9 during the apoptotic process. 381.
Suzue, K. *See* Ohteki, Fukao, Suzue, Maki, Ito, Nakamura, and Koyasu.
Suzuki, H. *See* Palecanda, Paulauskis, Al-Mutairi, Imrich, Qin, Suzuki, Kodama, Tryggvason, Koziel, and Kobzik.
Suzuki, K. *See* Masuyama, Yoshio, Suzuki, Kitagawa, Iwamoto, Kamimura, Hirata, Takeda, Kano, and Minota.
Swat, W. *See* Shaw, Swat, Ferrini, Davidson, and Alt.
Szalai, A.J. *See* Jones, Novick, Horiuchi, Yamamoto, Szalai, and Fuller.

T

Taga, S. *See* Mok, Gil-Gómez, Williams, Coles, Taga, Tolaini, Norton, Kioussis, and Brady.
Takahashi, N., Waelput, W., and Guisez, Y. Leptin is an endogenous protective protein against the toxicity exerted by tumor necrosis factor. 207.
Takahashi, T. *See* Motoyama, Kimura, Takahashi, Watanabe, and Nakano.
Takai, T. *See* Clynes, Maizes, Guinamard, Ono, Takai, and Ravetch.
— *See* Ujike, Ishikawa, Ono, Yuasa, Yoshino, Fukumoto, Ravetch, and Takai.

— *See* Yuasa, Kubo, Yoshino, Ujike, Matsumura, Ono, Ravetch, and Takai.

Takatsuka, H. *See* Miyazaki, Hirokami, Matsuhashi, Takatsuka, and Naito.

Takeda, A. *See* Masuyama, Yoshio, Suzuki, Kitagawa, Iwamoto, Kamimura, Hirata, Takeda, Kano, and Minota.

Takeda, K. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.

Takeshita, T. *See* Asada, Ishii, Sasaki, Endo, Kasai, Tanaka, Takeshita, Tsuchiya, Konno, and Sugamura.

Tam, C. *See* Gunn, Kyuwa, Tam, Kakiuchi, Matsuzawa, Williams, and Nakano.

Tan, E.M. *See* Zhang, Chan, Peng, and Tan.

Tanaka, N. *See* Asada, Ishii, Sasaki, Endo, Kasai, Tanaka, Takeshita, Tsuchiya, Konno, and Sugamura.

Tanguay, D.A., Colarusso, T.P., Pavlovic, S., Irigoyen, M., Howard, R.G., Bartek, J., Chiles, T.C., and Rothstein, T.L. Early induction of cyclin D2 expression in phorbol ester–responsive B-1 lymphocytes. 1685.

Taniguchi, M. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.

Tarrant, T.K., Silver, P.B., Wahlsten, J.L., Rizzo, L.V., Chan, C.-C., Wiggert, B., and Caspi, R.R. Interleukin 12 protects from a T helper type 1–mediated autoimmune disease, experimental autoimmune uveitis, through a mechanism involving interferon γ, nitric oxide, and apoptosis. 219.

Tascon, R. *See* Akbari, Panjwani, Garcia, Tascon, Lowrie, and Stockinger.

Tedder, T.F. *See* Tu, Delahunty, Ding, Luscinskas, and Tedder.

Teyton, L. *See* Manning, Parke, Teyton, and Kranz.

Thai, R. *See* Léonetti, Galon, Thai, Sautès-Fridman, Moine, and Ménez.

Thatte, J., Qadri, A., Radu, C., and Ward, E.S. Molecular requirements for T cell recognition by a major histocompatibility complex class II–restricted T cell receptor: the involvement of the fourth hypervariable loop of the Vα domain. 509.

Théry, C. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.

Thielemans, K. *See* Chaux, Vantomme, Stroobant, Thielemans, Corthals, Luiten, Eggermont, Boon, and van der Bruggen.

— *See* Maldonado-López, De Smedt, Michel, Godfroid, Pajak, Heirman, Thielemans, Leo, Urbain, and Moser.

Tilloy, F., Treiner, E., Park, S.-H., Garcia, C., Lemonnier, F., de la Salle, H., Bendelac, A., Bonneville, M., and Lantz, O. An invariant T cell receptor α chain defines a novel TAP-independent major histocompatibility complex class Ib–restricted α/β T cell subpopulation in mammals. 1907.

Tipsword, M. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.

Toes, R.E.M., Ossendorp, F., Offringa, R., and Melief, C.J.M. CD4 T cells and their role in antitumor immune responses. 753.

Tolaini, M. *See* Mok, Gil-Gómez, Williams, Coles, Taga, Tolaini, Norton, Kioussis, and Brady.

Tomonaga, M. *See* Maeda, Yamada, Moriuchi, Sugahara, Tsuruda, Joh, Atogami, Tsukasaki, Tomonaga, and Kamihira.

Tonnetti, L., Verí, M.-C., Bonvini, E., and D'Adamio, L. A role for neutral sphingomyelinase-mediated ceramide production in T cell receptor–induced apoptosis and mitogen-activated protein kinase–mediated signal transduction. 1581.

Toossi, Z. *See* Wilkinson, Patel, Llewelyn, Hirsch, Pasvol, Snounou, Davidson, and Toossi.

Topalian, S.L. *See* Pieper, Christian, Gonzales, Nishimura, Gupta, Settlage, Shabanowitz, Rosenberg, Hunt, and Topalian.

Toraño, A. *See* Domínguez and Toraño.

Touw, I.P. *See* Hermans, Antonissen, Ward, Mayen, Ploemacher, and Touw.

Treiner, E. *See* Tilloy, Treiner, Park, Garcia, Lemonnier, de la Salle, Bendelac, Bonneville, and Lantz.

Tryggvason, K. *See* Palecanda, Paulauskis, Al-Mutairi, Imrich, Qin, Suzuki, Kodama, Tryggvason, Koziel, and Kobzik.

Tschopp, J. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.

Tsuchiya, S. *See* Asada, Ishii, Sasaki, Endo, Kasai, Tanaka, Takeshita, Tsuchiya, Konno, and Sugamura.

Tsukasaki, K. *See* Maeda, Yamada, Moriuchi, Sugahara, Tsuruda, Joh, Atogami, Tsukasaki, Tomonaga, and Kamihira.

Tsuruda, K. *See* Maeda, Yamada, Moriuchi, Sugahara, Tsuruda, Joh, Atogami, Tsukasaki, Tomonaga, and Kamihira.

Tu, L., Delahunty, M.D., Ding, H., Luscinskas, F.W., and Tedder, T.F. The cutaneous lymphocyte antigen is an essential component of the L-selectin ligand induced on human vascular endothelial cells. 241.

Tumas-Brundage, K.M. *See* Vora, Tumas-Brundage, Lentz, Cranston, Fishel, and Manser.

Tung, K.S.K. *See* Deshmukh, Lewis, Gaskin, Kannapell, Waters, Lou, Tung, and Fu.

Tuohy, V.K., Yu, M., Yin, L., Kawczak, J.A., and Kinkel, R.P. Spontaneous regression of primary autoreactivity during chronic progression of experimental autoimmune encephalomyelitis and multiple sclerosis. 1033.

Turck, C.W. *See* Pingel, Launois, Fowell, Turck, Southwood, Sette, Glaichenhaus, Louis, and Locksley.

Tuttleton, S.E. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.

Tuvim, M. *See* Baram, Adachi, Medalia, Tuvim, Dickey, Mekori, and Sagi-Eisenberg.

U

Uehara, T. *See* Kubagawa, Chen, Ho, Shimada, Gartland, Mashburn, Uehara, Ravetch, and Cooper.

Ujike, A., Ishikawa, Y., Ono, M., Yuasa, T., Yoshino, T., Fukumoto, M., Ravetch, J.V., and Takai, T. Modulation of immunoglobulin (Ig)E-mediated systemic anaphylaxis by low-affinity Fc receptors for IgG. 1573.

— *See* Yuasa, Kubo, Yoshino, Ujike, Matsumura, Ono, Ravetch, and Takai.

Ulmer, A.J. *See* Mattern, Girroleit, Flad, Rietschel, and Ulmer.

Unutmaz, D., KewalRamani, V.N., Marmon, S., and Littman, D.R. Cytokine signals are sufficient for HIV-1 infection of resting human T lymphocytes. 1735.

Urbain, J. *See* Maldonado-López, De Smedt, Michel, Godfroid, Pajak, Heirman, Thielemans, Leo, Urbain, and Moser.

Urbani, E. *See* Liberatore, Capanni, Albi, Volpi, Urbani, Ruggeri, Mencarelli, Grignani, and Velardi.

V

Vainchenker, W. *See* Robin, Pflumio, Vainchenker, and Coulombel.

Valmori, D., Gileadi, U., Servis, C., Dunbar, P.R., Cerottini, J.-C., Romero, P., Cerundolo, V., and Lévy, F. Modulation of proteasomal activity required for the generation of a cytotoxic T lymphocyte–defined peptide derived from the tumor antigen MAGE-3. 895.

— *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.

van der Bruggen, P. *See* Chaux, Vantomme, Stroobant, Thielemans, Corthals, Luiten, Eggermont, Boon, and van der Bruggen.

Vande Velde, C. *See* MacDonald, Shi, Vande Velde, Lieberman, and Greenberg.

van de Wiel-van Kemenade, E. *See* Dolstra, Fredrix, Maas, Coulie, Brasseur, Mensink, Adema, de Witte, Figdor, and van de Wiel-van Kemenade.

van de Winkel, J.G.J. *See* Morton, van Zandbergen, van Kooten, Howard, van de Winkel, and Brandtzaeg.

Van Etten, R.A. *See* Li, Ilaria, Million, Daley, and Van Etten.

Van Kaer, L. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
— *See* Korsgren, Persson, Sundler, Bjerke, Hansson, Chambers, Hong, Van Kaer, Ljunggren, and Korsgren.
van Kooten, C. *See* Morton, van Zandbergen, van Kooten, Howard, van de Winkel, and Brandtzaeg.
van Rooijen, N. *See* Jun, Yoon, Zbytnuik, van Rooijen, and Yoon.
Vantomme, V. *See* Chaux, Vantomme, Stroobant, Thielemans, Corthals, Luiten, Eggermont, Boon, and van der Bruggen.
Van Voorhis, W.C. *See* Centurion-Lara, Castro, Barrett, Cameron, Mostowfi, Van Voorhis, and Lukehart.
van Zandbergen, G. *See* Morton, van Zandbergen, van Kooten, Howard, van de Winkel, and Brandtzaeg.
Veillette, A. *See* Cloutier and Veillette.
Velardi, A. *See* Liberatore, Capanni, Albi, Volpi, Urbani, Ruggeri, Mencarelli, Grignani, and Velardi.
Venugopal, C.S. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Verbeek, S. *See* Regnault, Lankar, Lacabanne, Rodriguez, Théry, Rescigno, Saito, Verbeek, Bonnerot, Ricciardi-Castagnoli, and Amigorena.
Verí, M.-C. *See* Tonnetti, Verí, Bonvini, and D'Adamio.
Vink, A., Warnier, G., Brombacher, F., and Renauld, J.-C. Interleukin 9–induced in vivo expansion of the B-1 lymphocyte population. 1413.
Viola, A. *See* Bachmann, Gallimore, Linkert, Cerundolo, Lanzavecchia, Kopf, and Viola.
Virgin, H.W. *See* Leib, Harrison, Laslo, Machalek, Moorman, and Virgin.
Vitale, M. *See* Cantoni, Bottino, Vitale, Pessino, Augugliaro, Malaspina, Parolini, Moretta, Moretta, and Biassoni.
Vogel, S.N. *See* Iadecola, Salkowski, Zhang, Aber, Nagayama, Vogel, and Ross.
Volpi, I. *See* Liberatore, Capanni, Albi, Volpi, Urbani, Ruggeri, Mencarelli, Grignani, and Velardi.
von Andrian, U.H. *See* Robert, Fuhlbrigge, Kieffer, Ayehunie, Hynes, Cheng, Grabbe, von Andrian, and Kupper.
— *See* Stein, Cheng, Stockton, Fors, Butcher, and von Andrian.
von Boehmer, H. *See* Di Santo, Aifantis, Rosmaraki, Garcia, Feinberg, Fehling, Fischer, von Boehmer, and Rocha.
Vora, K.A., Tumas-Brundage, K.M., Lentz, V.M., Cranston, A., Fishel, R., and Manser, T. Severe attenuation of the B cell immune response in Msh2-deficient mice. 471.

W

Wabl, M. *See* López-Macías, Kalinke, Cascalho, Wabl, Hengartner, Zinkernagel, and Lamarre.
Waelput, W. *See* Takahashi, Waelput, and Guisez.
Wagh, M.S. *See* Chandawarkar, Wagh, and Srivastava.
Wagner, N. *See* Lefrançois, Parker, Olson, Muller, Wagner, and Puddington.
Wahlsten, J.L. *See* Tarrant, Silver, Wahlsten, Rizzo, Chan, Wiggert, and Caspi.
Waltzinger, C. *See* Höglund, Mintern, Waltzinger, Heath, Benoist, and Mathis.
Wang, C.-R. *See* Behar, Dascher, Grusby, Wang, and Brenner.
Wang, J.M. *See* Su, Gong, Gao, Shen, Murphy, Oppenheim, and Wang.
Wang, R.-F., Wang, X., and Rosenberg, S.A. Identification of a novel major histocompatibility complex class II–restricted tumor antigen resulting from a chromosomal rearrangement recognized by $CD4^+$ T cells. 1659.
Wang, X. *See* Wang, Wang, and Rosenberg.
Ward, A.C. *See* Hermans, Antonissen, Ward, Mayen, Ploemacher, and Touw.
Ward, E.S. *See* Thatte, Qadri, Radu, and Ward.
Warner, T. *See* Brandhorst, Wüthrich, Warner, and Klein.
Warnier, G. *See* Vink, Warnier, Brombacher, and Renauld.
Wasik, M.A. *See* Nieborowska-Skorska, Wasik, Slupianek, Salomoni, Kitamura, Calabretta, and Skorski.
Watanabe, T. *See* Banu and Watanabe.
— *See* Motoyama, Kimura, Takahashi, Watanabe, and Nakano.
Waters, S.T. *See* Deshmukh, Lewis, Gaskin, Kannapell, Waters, Lou, Tung, and Fu.
Weier, H.-U. *See* Nilsson, Dooner, Weier, Frenkel, Lian, Stein, and Quesenberry.
Weill, J.-C. *See* Cocea, De Smet, Saghatchian, Fillatreau, Ferradini, Schurmans, Weill, and Reynaud.
Weinberger, L. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Weiss, A. *See* Chiu, Jayawardena, Weiss, Lee, Park, Dautry-Varsat, and Bendelac.
Wekerle, H. *See* Kerschensteiner, Gallmeier, Behrens, Leal, Misgeld, Klinkert, Kolbeck, Hoppe, Oropeza-Wekerle, Bartke, Stadelmann, Lassmann, Wekerle, and Hohlfeld.
Werner-Favre, C. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.
Westermann, J. *See* Berlin-Rufenach, Otto, Mathies, Westermann, Owen, Hamann, and Hogg.
White, J.M. *See* Williams, Engle, Kersh, White, and Allen.
White, K.D. *See* Hexham, White, Carayannopoulos, Mandecki, Brisette, Yang, and Capra.
Wiest, D.L. *See* Ashe, Wiest, Abe, and Singer.
Wiggert, B. *See* Tarrant, Silver, Wahlsten, Rizzo, Chan, Wiggert, and Caspi.
Wiley, S.R. *See* Griffith, Wiley, Kubin, Sedger, Maliszewski, and Fanger.
Wilkinson, R.J., Patel, P., Llewelyn, M., Hirsch, C.S., Pasvol, G., Snounou, G., Davidson, R.N., and Toossi, Z. Influence of polymorphism in the genes for the interleukin (IL)-1 receptor antagonist and IL-1β on tuberculosis. 1863.
Williams, A. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Williams, C.B., Engle, D.L., Kersh, G.J., White, J.M., and Allen, P.M. A kinetic threshold between negative and positive selection based on the longevity of the T cell receptor–ligand complex. 1531.
Williams, G.T. *See* O'Keefe, Williams, Batista, and Neuberger.
Williams, L.T. *See* Gunn, Kyuwa, Tam, Kakiuchi, Matsuzawa, Williams, and Nakano.
Williams, O. *See* Mok, Gil-Gómez, Williams, Coles, Taga, Tolaini, Norton, Kioussis, and Brady.
Wilshire, J.A. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Wilson, I.A. *See* Grant, Degano, Rosat, Stenger, Modlin, Wilson, Porcelli, and Brenner.
Wolf, D. *See* Xu, Laffert, Screaton, Kraft, Wolf, Kolanus, Mongkolsapay, McMichael, and Baur.
Wolyniec, W.W. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Wong, A. *See* Schultze, Michalak, Lowne, Wong, Gilleece, Gribben, and Nadler.
Wong, B.R. *See* Bachmann, Wong, Josien, Steinman, Oxenius, and Choi.
Wozniak, G. *See* Noll, Wozniak, McCarson, Hajimohammad, Metzner, Inserte, Kummer, Hehrlein, and Piper.
Wrana, J. *See* Bhatia, Bonnet, Wu, Murdoch, Wrana, Gallacher, and Dick.
Wright, S.D. Toll, a new piece in the puzzle of innate immunity. 605.
Wu, C.-Y. *See* Braun, He, Wu, and Kelsall.
Wu, D. *See* Bhatia, Bonnet, Wu, Murdoch, Wrana, Gallacher, and Dick.
Wu, L. *See* Baldwin, Reay, Wu, Farr, and Davis.
Wu, Y. *See* Kanakaraj, Ngo, Wu, Angulo, Ghazal, Harris, Siekierka, Peterson, and Fung-Leung.
Wucherpfennig, K.W. *See* Hausmann, Yu, Hausmann, and Wucherpfennig.
Wüthrich, M. *See* Brandhorst, Wüthrich, Warner, and Klein.

X

Xian, J. *See* Popov, Zou, Xian, Nicholson, and Brüggemann.
Xiao, H. *See* Endres, Garlisi, Xiao, Shan, and Hedrick.
Xie, H., Lim, Y.-C., Luscinskas, F.W., and Lichtman, A.H. Acquisition of selectin binding and peripheral homing properties by $CD4^+$ and $CD8^+$ T cells. 1765.
Xu, X.-N., Laffert, B., Screaton, G.R., Kraft, M., Wolf, D., Kolanus, W., Mongkolsapay, J., McMichael, A.J., and Baur, A.S. Induction of Fas ligand expression by HIV involves the interaction of Nef with the T cell receptor ζ chain. 1489.

Y

Yagita, H. *See* Kayagaki, Yamaguchi, Nakayama, Eto, Okumura, and Yagita.
Yahata, T. *See* Kitamura, Iwakabe, Yahata, Nishimura, Ohta, Ohmi, Sato, Takeda, Okumura, Van Kaer, Kawano, Taniguchi, and Nishimura.
Yamada, Y. *See* Maeda, Yamada, Moriuchi, Sugahara, Tsuruda, Joh, Atogami, Tsukasaki, Tomonaga, and Kamihira.
Yamaguchi, N. *See* Kayagaki, Yamaguchi, Nakayama, Eto, Okumura, and Yagita.
Yamamoto, N. *See* Jones, Novick, Horiuchi, Yamamoto, Szalai, and Fuller.
Yamashita, N., Hoshida, S., Otsu, K., Asahi, M., Kuzuya, T., and Hori, M. Exercise provides direct biphasic cardioprotection via manganese superoxide dismutase activation. 1699.
Yandava, C.N. *See* De Sanctis, MacLean, Hamada, Mehta, Scott, Jiao, Yandava, Kobzik, Wolyniec, Fabian, Venugopal, Grasemann, Huang, and Drazen.
Yang, Y.-S. *See* Hexham, White, Carayannopoulos, Mandecki, Brisette, Yang, and Capra.
Yap, G.S., and Sher, A. Effector cells of both nonhemopoietic and hemopoietic origin are required for interferon (IFN)-γ– and tumor necrosis factor (TNF)-α–dependent host resistance to the intracellular pathogen, *Toxoplasma gondii*. 1083.
Yeh, W.-C. *See* Kapp, Yeh, Patterson, Elia, Kägi, Ho, Hessel, Tipsword, Williams, Mirtsos, Itie, Moyle, and Mak.
Yewdell, J.W. *See* Chen, Yewdell, Levine, and Bennink.
Yin, L. *See* Tuohy, Yu, Yin, Kawczak, and Kinkel.
Yodoi, J. *See* Bertini, Howard, Dong, Oppenheim, Bizzarri, Sergi, Caselli, Pagliei, Romines, Wilshire, Mengozzi, Nakamura, Yodoi, Pekkari, Gurunath, Holmgren, Herzenberg, Herzenberg, and Ghezzi.
Yoon, C.-S. *See* Jun, Yoon, Zbytnuik, van Rooijen, and Yoon.
Yoon, J.-W. *See* Jun, Yoon, Zbytnuik, van Rooijen, and Yoon.
Yoshino, T. *See* Ujike, Ishikawa, Ono, Yuasa, Yoshino, Fukumoto, Ravetch, and Takai.
— *See* Yuasa, Kubo, Yoshino, Ujike, Matsumura, Ono, Ravetch, and Takai.
Yoshio, T. *See* Masuyama, Yoshio, Suzuki, Kitagawa, Iwamoto, Kamimura, Hirata, Takeda, Kano, and Minota.
Young, L.S. *See* Afford, Randhawa, Eliopoulos, Hubscher, Young, and Adams.
Yu, B. *See* Hausmann, Yu, Hausmann, and Wucherpfennig.
Yu, M. *See* Tuohy, Yu, Yin, Kawczak, and Kinkel.
Yuasa, T., Kubo, S., Yoshino, T., Ujike, A., Matsumura, K., Ono, M., Ravetch, J.V., and Takai, T. Deletion of Fcγ receptor IIB renders $H\text{-}2^b$ mice susceptible to collagen-induced arthritis. 187.
— *See* Ujike, Ishikawa, Ono, Yuasa, Yoshino, Fukumoto, Ravetch, and Takai.
Yuda, M., Sawai, T., and Chinzei, Y. Structure and expression of an adhesive protein–like molecule of mosquito invasive-stage malarial parasite. 1947.
Yun, T.J. *See* Law, Ewings, Chaudhary, Solow, Yun, Marshall, Hood, and Clark.

Z

Zamzami, N. *See* Susin, Lorenzo, Zamzami, Marzo, Brenner, Larochette, Prévost, Alzari, and Kroemer.
Zbytnuik, L. *See* Jun, Yoon, Zbytnuik, van Rooijen, and Yoon.
Zeiher, A.M. *See* Dimmeler, Breitschopf, Haendeler, and Zeiher.
Zeng, D., Lewis, D., Dejbakhsh-Jones, S., Lan, F., García-Ojeda, M., Sibley, R., and Strober, S. Bone marrow $NK1.1^-$ and $NK1.1^+$ T cells reciprocally regulate acute graft versus host disease. 1073.
Zhang, F. *See* Iadecola, Salkowski, Zhang, Aber, Nagayama, Vogel, and Ross.
Zhang, J.-Y., Chan, E.K.L., Peng, X.-X., and Tan, E.M. A novel cytoplasmic protein with RNA-binding motifs is an autoantigen in human hepatocellular carcinoma. 1101.
Zhang, L. *See* Jin, Bauer, Tuttleton, Lewin, Gettie, Blanchard, Irwin, Safrit, Mittler, Weinberger, Kostrikis, Zhang, Perelson, and Ho.
Zhao, R., Loftus, D.J., Appella, E., and Collins, E.J. Structural evidence of T cell xeno-reactivity in the absence of molecular mimicry. 359.
Zhong, G., Fan, T., and Liu, L. Chlamydia inhibits interferon γ–inducible major histocompatibility complex class II expression by degradation of upstream stimulatory factor 1. 1931.
Zinkernagel, R.M. *See* López-Macías, Kalinke, Cascalho, Wabl, Hengartner, Zinkernagel, and Lamarre.
Zou, X. *See* Popov, Zou, Xian, Nicholson, and Brüggemann.
Zubler, R.H. *See* Schneider, MacKay, Steiner, Hofmann, Bodmer, Holler, Ambrose, Lawton, Bixler, Acha-Orbea, Valmori, Romero, Werner-Favre, Zubler, Browning, and Tschopp.

SUBJECT INDEX VOLUME 189

Abelson virus, different leukemogenic activity of three forms of *BCR/ABL* oncogene, 1399
Actin cytoskeleton, requirement of p21-activated kinase for *Salmonella*-induced responses, 1479
Actin polymerization, role of 4C8 antigen in transmigration process of T cells, 979
Acute myeloid leukemia, sustained granulocyte colony-stimulating factor receptor activation in, 683
Acute promyelocytic leukemia, retinoic acid and arsenic synergy in, 1043
Adapter protein, Grb2 binds to tumor necrosis factor receptor I, 1707
Adaptor protein
  GrpL interacts with SLP-76 to regulate NF-AT activation, 1243
  SIT regulates human T cell activation, 1181
Adhesins, role of WI-1 in adherence and virulence of *Blastomyces dermatitidis*, 1207
Adhesion
  role of cGKI in prevention of platelet aggregation and, 1255
  role of cutaneous lymphocyte antigen of L-selectin ligand induced on vascular endothelium, 241
  role of LFA-1 and α4 integrins in lymphocyte recirculation, 1467
  role of L-selectin topography in, 37
Adult T cell leukemia, Fas mutation in progression of, 1063
Affinity
  of T cell receptor, effects of complementarity determining region mutations on, 461
  of T cells, effect on selective expansion during infection, 701
AIDS
  HIV-1 virion-associated protein Vpr is coactivator of human glucocorticoid receptor, 51
  human herpesvirus 6 causes thymocyte depletion in SCID mice, 1953
  Kaposi's sarcoma–related herpesvirus-encoded vMIP-I is specific agonist for CCR8, 1993
AIM, novel apoptosis inhibitory factor, 413
Airway
  natural killer cells determine development of allergen-induced inflammation of, 553
  role of nitric oxide synthases in hyperresponsiveness and inflammation in allergic asthma, 1621
Akt kinase, role in Bad regulation of T cell development and apoptosis, 575
Allelic exclusion
  extended DH–JH rearrangement in immunoglobulin heavy chain, 1295
  role of gene-targeted modifications of κ locus in regulating rearrangement, 1443
Allergens, autoimmune reactions to human P_2 protein in *Aspergillus* allergy, 1507
Allergic asthma, role of nitric oxide synthases in airway hyperresponsiveness and inflammation in, 1621
Allergy, immunoglobulin E–independent T cell peptide epitope–induced asthmatic reactions, 1885
Allograft rejection, CD40 induces hepatocyte apoptosis during, 441
Altered peptide ligands
  LACK peptides modulate T cell response to *Leishmania*, 1111
  microbial epitopes prevent EAE by acting as, 1275
  negative and positive selection based on complex of T cell receptor and, 1531
Alveolar macrophages, bind environmental particles through scavenger receptor MARCO, 1497
Anaphylaxis, Fcγ receptors regulate immunoglobulin E–mediated, 1573
Anemia, iron transport protein NRAMP2 expression in endosomes, 831
Anorexia, leptin is endogenous protective protein against tumor necrosis factor lethality, 207
Antagonism, of T cell receptor without negative signal, 253
Antigen
  role of 4C8 antigen in transmigration process of T cells, 979
  role of receptor signals in early T cell development, 563
Antigen presentation
  activation and protection of dendritic cells induced by influenza virus and RNA, 821
  by CD1, two distinct pathways of, 103
  dendritic cells generate immune response without homing to lymph node, 593
  Fc receptors mediate dendritic cell maturation and, 371
  increased by immunoglobulin binding proteins, 1217
  initiation of diabetes regulated by, 331
  molecular recognition of lipid antigens by T cell receptors, 195
  pH-dependent release of CLIP from diabetes-associated I-A^{g7}, 1723
  role in B cell–dependent and antibody-independent murine lupus, 1639
  role of $CD34^+$ blood stem cells in T cell stimulation and CD80 expression, 693
Antigen presenting cells, role in interferon γ production in response to *Listeria* and interleukin 12, 1981
Antigen processing
  cysteine modifications affect immunogenicity and antigenicity of viral peptides, 1757
  modulation of proteasomal activity, 895
Antigen receptor, effect of histamine H1 receptor signaling on immune responses, 673
Antigen recognition, role of α chain fourth hypervariable loop in T cell recognition, 509
Antigen-specific immunity, selection of preferred CDR3 motifs of T cell receptor, 1823
Antitumor immunity
  identification of novel MHC class II–restricted tumor antigen, 1659
  restrained effector function of cytotoxic T lymphocytes, 811
Apoptosis
  AIM is novel inhibitor of, 413
  Bad regulates T cell development and, 575
  c-Myc regulates HIV-1 infection in activated T cells, 1391
  of double positive thymocytes, role of nuclear factor κB in promoting, 145
  of erythrocytes, prevented by *Bcl-x*, 1691
  Fas ligand expression by HIV involves interaction of Nef with T cell receptor, 1489
  Fas mutation in progression of adult T cell leukemia, 1063
  of hepatocytes during liver allograft rejection induced by CD40, 441
  induced by narrow-band ultraviolet B light in psoriatic lesions, 711
  mitochondrial regulation of granzyme B–induced, 131
  mitochondrial release of caspases during, 381
  monocyte-mediated tumoricidal activity via TRAIL, 1343
  novel inhibitory molecule isolated from B cells, 949
  role of Fas ligand in initiation of and recovery from experimental allergic encephalomyelitis, 1195
  role of IκB kinase in nuclear factor κB activation and prevention of, 1839
  role of interferon α/β in preventing death of activated T cells, 521
  role in interleukin 12 protection against experimental autoimmune uveitis, 219
  role for neutral sphingomyelinase-mediated ceramide production in T cell receptor signaling, 1581
  role of RelA in regulation of multiple immune-response genes and Fas-induced, 999
  of T cell acute lymphoblastic leukemia cells, role of E2A in, 501
  of thymocytes, regulated by cyclin-dependent kinase Cdk2, 957
  transforming growth factor β inhibits FasL expression and, via c-Myc, 231
  ubiquitin-dependent degradation of Bcl-2, 1815
Arsenic, synergy of retinoic acid and, in acute promyelocytic leukemia, 1043
Arthritis, role of Fcγ receptor in suppressing collagen-induced, 187
Aspergillus, autoimmune reactions to human P_2 protein in allergy to, 1507
Aspirin, tumor necrosis factor 1α–initiated neutrophil responses inhibited by lipoxins triggered by, 1923
Asthma
  immunoglobulin E–independent T cell peptide epitope–induced reactions, 1885
  natural killer cells determine development of allergic airway inflammation, 553
  role of nitric oxide synthases in airway hyperresponsiveness and inflammation in, 1621
Atherosclerosis, expression of stromelysin-3 in lesions, 843
Autoantigen, regulatory T cells induced by peripheral, 877
Autoimmune disease
  B cell–dependent and antibody-independent murine lupus, 1639
  CD22 regulates B cell triggering thresholds to avoid, 1307
  immune responses to Ro60 and its peptides, 531
  initiation of diabetes by regulated presentation of pancreatic islet cell antigens, 331
  insulitis progression requires islet response to tumor necrosis factor α, 1053
  interleukin 10 prevents induction of experimental autoimmune encephalomyelitis, 1005
  interleukin 12 protects against experimental autoimmune uveitis, 219

microbial epitopes act as altered peptide ligands to prevent EAE, 1275
MRL defect in developmental arrest and follicular exclusion of B cells, 1799
role of Fas ligand in initiation of and recovery from EAE, 1195
role of Fcγ receptor in suppressing collagen-induced arthritis, 187
role of interleukin 12 in differentiation of pathogenic autoreactive T cells, 969
role of macrophages in T cell–mediated diabetes, 347
role of transforming growth factor β and interleukin 4 in prevention of thyroiditis, 279
spontaneous regression of autoreactivity in, 1033
unforeseen platform for immune therapy, 1021
Autoimmunity
humoral and cell-mediated reactions to human P_2 protein in *Aspergillus* allergy, 1507
interleukin 9 induces expansion of B cell population, 1413
neurotrophin production by immune cells, 865
peripheral autoantigen induces regulatory T cells that prevent, 877
pH-dependent release of CLIP from diabetes-associated I-A^{g7}, 1723
specific immunological activity of tumor-derived heat shock protein gp96, 1437
Autologous cells, natural killer cell–mediated lysis modified by gene therapy, 1855
B7, role in activation of cytotoxic T lymphocyte–associated antigen 4–deficient T cells, 435
B7-2, interleukin 4–dependent expression of antitumor immunity induced by, 919
B cell acute lymphoblastic leukemia, human minor histocompatibility antigen specific for, 301
B cell memory, lymph node germinal centers form without follicular dendritic cells, 855
B cell receptor, inhibits SDF-1α chemotaxis and promotes internalization of CXCR4, 1461
B cells
antibody-independent role in murine lupus for, 1639
antigen presentation increased by immunoglobulin binding proteins, 1217
CD22 inhibits autoimmunity by regulating triggering thresholds of, 1307
extended DH–JH rearrangement in immunoglobulin heavy chain, 1295
gene rearrangement and hypermutation contribute to antiviral immunoglobulin responses, 1791
homeostasis of activated, 319
interleukin 9 induces expansion of, 1413
MRL defect in developmental arrest and follicular exclusion of, 1799
novel Fas apoptosis inhibitory molecule isolated from, 949
novel tumor necrosis factor family ligand stimulates growth of, 1747
rearrangement and expression of immunoglobulins during normal development of, 75
role of activated Ras in development of RAG-deficient, 123
role of CD22 in bone marrow homing of recirculating, 1513
role of lymphotoxin β and tumor necrosis factor in maturation of follicular dendritic cells, 159
role of Msh2 in immune response, 471
T cell signals regulate production of interleukin 12 by, 1
B-1 cells, early induction of cyclin D2 expression in, 1685
B lymphopoiesis, commitment to B lineage occurs before and independently of V(D)J recombination, 735
Bad, regulates T cell development and apoptosis, 575
BAFF, novel tumor necrosis factor family ligand stimulates B cell growth, 1747
Bcl-2
role in mitochondrial release of caspases during apoptosis, 381
ubiquitin-dependent degradation of, 1815
Bcl-x, prevents apoptosis of erythrocytes at end of maturation, 1691
bcl-x_L gene, role of nuclear factor κB in thymocyte apoptosis via regulation of, 145
BCR/ABL oncogene, different leukemogenic activity of three forms of, 1399
BCR/ABL Src homology, STAT5 activation in leukemogenesis depends on, 1229
Blastomyces dermatitidis, role of WI-1 in adherence and virulence of, 1207
Bone, cells capable of bone production engraft from whole bone marrow transplants, 729
Bone marrow
cells capable of bone production engraft from whole transplants of, 729
homeostasis of activated B cells, 319
rearrangement and expression of immunoglobulins during B cell development, 75
role of CD22 in homing of recirculating B cells, 1513
role of LFA-1 and α4 integrins in lymphocyte recirculation through, 1467
role of lymphotoxin β and tumor necrosis factor in maturation of follicular dendritic cells, 159
Bone marrow transplantation
effect of graft-versus-host disease on T cell production and homeostasis, 1329
human minor histocompatibility antigen specific for B cell acute lymphoblastic leukemia, 301
role of natural killer T cells in regulation of graft-versus-host disease, 1073
Bone morphogenetic proteins, regulate human blood stem cells, 1139
Bowel diseases, colonic patch enlargement and T helper cell responses in hapten-induced colitis, 1169
Brain injury, role of interferon regulatory factor 1 in cerebral ischemia, 719
Brain-derived neurotrophic factor, produced by activated human T cells, B cells and monocytes, 865
Cβ domain, role of FG loop of T cell receptor β chain in T cell development and function, 1679
Calcium binding proteins, synaptotagmin negatively regulates exocytosis of lysosomes in mast cells, 1649
Calreticulin, elicits tumor- and peptide-specific immunity, 797
Cancer
cytolytic $CD4^+$ T cells recognize MAGE-3 epitope on HLA melanomas, 871
different leukemogenic activity of three forms of *BCR/ABL* oncogene, 1399
Fas mutation in progression of adult T cell leukemia, 1063
identification of mutated human melanoma antigen recognized by $CD4^+$ T cells, 757
novel cytoplasmic antigen in human hepatocellular carcinoma, 1101
role of $CD4^+$ T cells in antitumor immune responses, 753
STAT5 activation in leukemogenesis depends on BCR/ABL Src homology, 1229
synergy of retinoic acid and arsenic in acute promyelocytic leukemia, 1043
Cancer immunity, calreticulin elicits tumor- and peptide-specific, 797
Caspase
mitochondrial release during apoptosis, 381
role in mitochondrial regulation of granzyme B–induced apoptosis, 131
CCR1, dominant myelopoietic effector functions mediated by, 1987
CCR8, Kaposi's sarcoma–related herpesvirus-encoded vMIP-I is specific agonist for, 1993
CD1
regulation of natural killer cell lysis by, 483
role in molecular recognition of lipid antigens by T cell receptors, 195
two distinct pathways of antigen presentation by, 103
CD4, role of α chain fourth hypervariable loop in T cell recognition, 509
CD7, role in lipopolysaccharide-induced shock, 1011
CD8
crucial role in suppressing simian immunodeficiency virus replication, 991
migration and localization of effector cells in protection against pulmonary virus infection, 423
CD22
role in bone marrow homing of recirculating B cells, 1513
role in regulation of B cell triggering thresholds to avoid autoimmunity, 1307
CD40
cytotoxic T lymphocyte induction independent of, 1875
induces hepatocyte apoptosis during liver allograft rejection, 441
regulates stromelysin-3 expression in atherosclerotic lesions, 843
role in B cell production of interleukin 12, 1
CD80, accessory function of $CD34^+$ blood stem cells in expression of, 693
CD89, localization of immunoglobulin-binding region within EC1 of, 1715
CD95, gene mutation in progression of adult T cell leukemia, 1063
$CD34^+$ blood stem cells, accessory function in T cell stimulation and CD80 expression, 693
CD40 ligand, role of TRANCE in T cell activation independent of, 1025
$CD4^+$ T cells
identification of MAGE-3 epitopes presented by HLA to, 767
identification of mutated human melanoma antigen recognized by, 757
recognize MAGE-3 epitope on HLA melanomas, 871
role in antitumor immune responses, 753
CD8 T cells
role of β7 integrins during antiviral immune response in trafficking of, 1631
T cell response determined by timing of recruitment of individual clones, 1591
$CD8^+$ T cells
CTLA-4 directly regulates, 1157
mandatory cytotoxicity in contact hypersensitivity mediated by, 779
Cdc42, requirement of p21-activated kinase for *Salmonella*-induced responses dependent on, 1479
CD4/CD8, measuring energy associated with repertoire skewing, 461
CD1D, role in tuberculosis infection of TAP1 and, 1973
Cdk2, critical role in induction of thymocyte apoptosis, 957

Cell cycle
Bad regulates T cell development and apoptosis, 575
early induction of cyclin D2 expression in B-1 cells, 1685
Cell differentiation, *Bcl-x* prevents apoptosis of erythrocytes at end of maturation, 1691
Cell renewal, homeostasis of activated B cells, 319
Cell survival, role of interferon α/β in preventing death of activated T cells, 521
Ceramide, role for neutral sphingomyelinase-mediated production of, in T cell receptor signaling, 1581
Cerebral ischemia, role of interferon regulatory factor 1 in, 719
cGKI, role in prevention of platelet adhesion and aggregation, 1255
Chemokines
B cell antigen receptor–induced internalization of CXCR4, 1461
in B and T zone, lymphotoxin α/β and tumor necrosis factor promote expression of, 403
dominant myelopoietic effector functions mediated by CCR1, 1987
Kaposi's sarcoma–related herpesvirus-encoded vMIP-I is specific agonist for CCR8, 1993
role in dendritic cell migration to T cell areas of lymphoid organs, 447
role in dendritic cell mobilization, 611
role in lymphocyte homing and dendritic cell localization, 451
Chemotaxis
activation of chemoattractant receptor FPRL1 by serum amyloid A, 395
role of *N*-formylpeptide receptor in antibacterial host defense, 657
thioredoxin is unique redox-acting chemoattractant for leukocytes, 1783
Chlamydia, inhibits interferon γ–inducible MHC class II expression, 1931
Cholera toxin, suppresses production of interleukin 12 and expression of interleukin 12 receptor, 541
Chromosomal rearrangement, results in identification of novel MHC class II–restricted tumor antigen, 1659
Chronic myeloid leukemia, different leukemogenic activity of three forms of *BCR/ABL* oncogene, 1399
CLIP, pH-dependent release from diabetes-associated I-A^{g7}, 1723
Clonal expansion, T cell response determined by timing of recruitment of individual clones, 1591
Clonal maturation, selection of preferred CDR3 motifs of T cell receptor, 1823
c-Myc
HIV-1 infection in activated T cells regulated by, 1391
transforming growth factor β inhibits FasL expression via, 231
c-*myc* gene, STAT3 activation of, 63
Colitis, colonic patch enlargement and T helper cell responses in hapten-induced, 1169
Collagen, role of Fcγ receptor in suppressing arthritis induced by, 187
Complement
role in immune adherence mechanism of *Leishmania* infection, 25
role in modulation of inflammation by activation and inhibitory Fc receptors, 179
Complementarity determining region, effects of mutations on affinity of α/β T cell receptor, 461
Contact hypersensitivity, mandatory cytotoxicity mediated by $CD8^+$ T cells, 779
Cord blood, identification of transplantable and totipotent lymphomyeloid cells in human, 1601
Coronary disease, exercise-induced cardioprotection via manganese superoxide dismutase, 1699
C-reactive protein, activates soluble interleukin 6 receptor release, 599
Crystallography, structural evidence of T cell xeno-reactivity in the absence of molecular mimicry, 359
Csk, cooperative inhibition of T cell activation by complex of PEP and, 111
CTLA-4, directly regulates $CD8^+$ T cells, 1157
Cutaneous lymphocyte antigen, critical component of L-selectin ligand induced on vascular endothelium, 241
CXCR4, B cell antigen receptor–induced internalization of, 1461
Cyclin-dependent kinase, critical role in induction of thymocyte apoptosis, 957
Cyclins, early induction of cyclin D2 expression in B-1 cells, 1685
Cysteine
modifications affect immunogenicity and antigenicity of viral peptides, 1757
role in inhibiting natural killer cells, 1265
Cytochrome *c*, role in mitochondrial regulation of granzyme B–induced apoptosis, 131
Cytokines
cholera toxin suppresses production and receptor expression of interleukin 12, 541
C-reactive protein activates soluble interleukin 6 receptor release, 599
HIV-1 infection of resting T cells permitted by signaling of, 1735
interleukin 9 induces expansion of B cell population, 1413
leishmaniasis cured by T cell depletion and recovery directed by, 1895
role in natural killer T cell–regulated graft-versus-host disease, 1073
role in noncytopathic clearance of lymphocytic choriomeningitis virus from hepatocyte, 1555
role of nuclear factor κB in expression of, and T cell proliferation, 145
role of receptor signals in early T cell development, 563
role of T helper cell responses in hapten-induced colitis, 1169
T cell lineage-specific requirement for STAT4 in interferon γ production, 1355
Cytotoxic T lymphocyte–associated antigen 4, role of B7 in activation of T cells deficient in, 435
Cytotoxic T lymphocytes
contact hypersensitivity mediated by, 779
crucial role of CD8 in suppressing simian immunodeficiency virus replication, 991
mechanism of CD40-independent induction of, 1875
minor histocompatibility antigen specific for B cell acute lymphoblastic leukemia, 301
restrained antitumor effector function of, 811
role of interleukin 4 in tumor immunity mediated by, 803
T cell affinity maturation by selective expansion during infection, 701
Cytotoxicity
activation of Ly-49D receptor by MHC I antigen H-$2D^d$ on natural killer cells, 493
CTLA-4 directly regulates $CD8^+$ T cells, 1157
molecular cloning of triggering receptor NKp44 involved in tumor cell lysis, 787
of T cells, interferons regulate TRAIL-mediated, 1451
Demyelinating disease
role of Fas ligand in initiation of and recovery from EAE, 1195
spontaneous regression of autoreactivity in EAE and multiple sclerosis, 1033
Dendritic cells
activation and protection induced by influenza virus and RNA, 821
biochemical nature and cellular distribution of paired immunoglobulin-like receptors, 309
$CD8\alpha^-$, interleukin 12–dependent interferon γ production by, 1981
$CD8^+$ T cells mediate CD40-independent maturation of, 1875
Fc receptors mediate antigen presentation and maturation of, 371
generate immune response without homing to lymph node, 593
interaction with skin endothelium in immunosurveillance, 627
lymph node germinal centers form without follicular, 855
mannose receptor expression in mouse lymphoid and nonlymphoid organs, 1961
mobilization for tolerance, priming and chronic inflammation, 611
role of chemokines in migration of, 447
role of interleukin 12 produced by, in activation of natural killer T cells, 1121
role of lymphotoxin β and tumor necrosis factor in maturation of follicular, 159
role of secondary lymphoid organ chemokine in localization of, 451
T helper cell development regulated by subclasses of, 587
transfection and activation in DNA vaccination, 169
Dermatitis, mandatory cytotoxicity in contact hypersensitivity mediated by $CD8^+$ T cells, 779
Diabetes
initiation by regulated presentation of pancreatic islet cell antigens, 331
pH-dependent release of CLIP from I-A^{g7} associated with, 1723
p55-mediated islet response required for progression to, 1053
role of macrophages in T cell–mediated autoimmune, 347
Disease susceptibility, polymorphism in interleukin-1 receptor antagonist and tuberculosis, 1863
DNA, transfection and activation of dendritic cells in vaccination, 169
Drug design, influence of enzyme inhibitors on growth of *M. tuberculosis*, 1425
E2A
positive and negative regulation of V(D)J recombination by, 289
role in growth inhibition and apoptosis in T cell acute lymphoblastic leukemia cells, 501
Edema, effect of recombinant human factor XIII on endothelial barrier function, 1373
Endoplasmic reticulum, calreticulin elicits tumor- and peptide-specific immunity in, 797
Endosomes
iron transport protein NRAMP2 expression in, 831
two distinct pathways of antigen presentation by CD1, 103
Endothelial cells
role of cGKI in prevention of platelet adhesion and aggregation, 1255
ubiquitin-dependent degradation of Bcl-2, 1815

Endothelial permeability, effect of recombinant human factor XIII on barrier function, 1373
Endothelium
  interaction with dendritic cells in immunosurveillance, 627
  mannose receptor expression by, 1961
  role of 4C8 antigen in transmigration process of T cells, 979
  role of cutaneous lymphocyte antigen of L-selectin ligand induced on vascular, 241
  role of P-selectin in interaction of leukocytes and, in hemorrhage, 931
Endotoxin, lipopolysaccharide tolerance with mutations in Toll-like receptor 4, 615
Engraftment, cells capable of bone production engraft from whole bone marrow transplants, 729
Environmental particles, bound by alveolar macrophages through scavenger receptor MARCO, 1497
Enzyme inhibitors, influence on growth of *M. tuberculosis*, 1425
Eosinophilia
  additive roles of interleukin 4 and interleukin 13 in T helper cell–mediated responses, 1565
  natural killer cells determine development of allergic airway inflammation, 553
Epitope spreading, spontaneous regression of autoreactivity in EAE and multiple sclerosis, 1033
Erythrocytes, role of *Bcl-x* to prevent apoptosis of, 1691
Exercise, activation of manganese superoxide dismutase in cardioprotection induced by, 1699
Exocytosis, synaptotagmin negatively regulates mast cell lysosomal, 1649
Experimental allergic encephalomyelitis
  role of Fas ligand in initiation of and recovery from, 1195
  role of interleukin 12 in differentiation of autoreactive T cells, 969
Experimental autoimmune encephalomyelitis
  interleukin 10 prevents induction of, 1005
  microbial epitopes act as altered peptide ligands to prevent, 1275
  spontaneous regression of autoreactivity in, 1033
  unforeseen platform for immune therapy, 1021
Extracellular domains, localization of immunoglobulin-binding regions of Fc receptors within EC1, 1715
Extravasation, interaction of dendritic cells with skin endothelium in immunosurveillance, 627
Fas
  gene mutation in progression of adult T cell leukemia, 1063
  novel apoptosis inhibitory molecule isolated from B cells, 949
  role in CD40 induction of hepatocyte apoptosis during liver allograft rejection, 441
  role in MRL defect in developmental arrest and follicular exclusion of B cells, 1799
  role of RelA in cell death induced by, 999
Fas apoptosis inhibitory molecule, isolated from B cells, 949
Fas ligand
  expression by HIV involves interaction of Nef with T cell receptor, 1489
  required for UV-induced systemic immune suppression, 1285
  role in initiation of and recovery from experimental allergic encephalomyelitis, 1195
  transforming growth factor β inhibits expression of, via c-Myc, 231
Fcγ receptor, role in suppressing collagen-induced arthritis, 187
Fc receptors
  biochemical nature and cellular distribution of paired immunoglobulin-like receptors, 309
  dendritic cell maturation and antigen presentation mediated by, 371
  localization of immunoglobulin-binding regions within EC1 of, 1715
  modulation of inflammation by activation and inhibitory, 179
  regulate immunoglobulin E–mediated anaphylaxis, 1573
FC1P, immunoglobulin E–independent T cell peptide epitope–induced asthmatic reactions to, 1885
Follicular dendritic cells, lymph node germinal centers form without, 855
FPRL1, activation of chemoattractant receptor by serum amyloid A, 395
G protein, effect of histamine H1 receptor signaling on immune responses, 673
α-Galactosylceramide, immunopotentiating mechanisms of natural killer T cell ligand, 1121
Gene expression
  interleukin 13 stimulates growth of Hodgkin and Reed-Sternberg tumor cells, 1939
  of pre-T cell receptor α gene, controlled by upstream transcriptional enhancer, 1669
  role of RelA in regulation of multiple immune-response genes, 999
Gene rearrangement, in B cells, contributes to antiviral immunoglobulin responses, 1791
Gene targeting, role of WI-1 in adherence and virulence of *Blastomyces dermatitidis*, 1207
Gene therapy, natural killer cell–mediated lysis of autologous cells modified by, 1855
Germinal center
  lymph node, form without follicular dendritic cells, 855
  role of Msh2 in B cell immune response, 471
Germline promoter, role of gene-targeted modifications of κ locus in regulating rearrangement, 1443
Glucocorticoid receptor, HIV-1 virion-associated protein Vpr is coactivator of, 51
Glutamine, influence of enzyme inhibitors on growth of *M. tuberculosis*, 1425
gp96, specific immunological activity of tumor-derived heat shock protein, 1437
gp130, role in STAT3 activation of *c-myc* promoter, 63
Graft-versus-host disease
  effect on T cell production and homeostasis, 1329
  role of natural killer T cells in regulation of, 1073
Granulocyte colony-stimulating factor, sustained receptor activation in severe congenital neutropenia, 683
Granzyme B, mitochondrial regulation of apoptosis induced by, 131
Grb2
  binds to tumor necrosis factor receptor I, 1707
  related adaptor protein interacts with SLP-76 to regulate NF-AT activation, 1243
Grf40, novel Grb2 family member involved in T cell signaling, 1383
GrpL, Grb2-related adaptor protein interacts with SLP-76 to regulate NF-AT activation, 1243
Haptens
  colonic patch enlargement and T helper cell responses in colitis induced by, 1169
  contact hypersensitivity mediated by $CD8^+$ T cells after exposure to, 779
H-$2D^d$, activation of Ly-49D receptor by MHC I antigen on natural killer cells, 493
Heart
  effect of recombinant human factor XIII on endothelial barrier function, 1373
  exercise-induced cardioprotection via manganese superoxide dismutase, 1699
Heat shock protein
  calreticulin elicits tumor- and peptide-specific immunity, 797
  specific immunological activity of tumor-derived gp96, 1437
Hematopoiesis
  bone morphogenetic proteins regulate human blood stem cells, 1139
  identification of transplantable and totipotent lymphomyeloid cells in human cord blood, 1601
Hemopoiesis, effector cells required in host resistance to toxoplasma, 1083
Hemorrhage, role of P-selectin in leukocyte–endothelium interaction in, 931
Hepatocellular carcinoma, p62 cytoplasmic antigen in, 1101
Hepatocytes
  CD40 induces apoptosis of, during liver allograft rejection, 441
  noncytopathic clearance of lymphocytic choriomeningitis virus from, 1555
Herpes simplex viruses, interferons regulate wild-type and mutant phenotype of, 663
Herpesvirus, causes thymocyte depletion in SCID mice, 1953
Histamine H1 receptor, effect on immune responses of signaling by, 673
Histocompatibility leukocyte antigen, identification of MAGE-3 epitopes presented by, 767
Histocompatibility leukocyte antigen C, role of transmembrane sequence to inhibit natural killer cells, 1265
Histocompatibility leukocyte antigen G
  receptor expressed on natural killer cells, 1093
  tetramer binding to peripheral blood cells, 1149
HIV, interaction of Nef with T cell receptor involved in Fas ligand expression by, 1489
HIV-1
  characterization of inflammatory polypeptide from *Staphylococcus epidermidis*, 907
  constant mean viral copy number in, 1545
  cytokine signals permit infection of resting T cells, 1735
  infection in activated T cells regulated by c-Myc, 1391
  Vpr is coactivator of human glucocorticoid receptor, 51
Hodgkin's disease, interleukin 13 stimulates growth of Hodgkin and Reed-Sternberg tumor cells, 1939
Homeostasis, of activated B cells, 319
Homing, properties of naive T cells in peripheral, 1765
Host defense
  role of *N*-formylpeptide receptor in antibacterial, 657
  role of reactive oxygen and nitrogen intermediates in killing visceral *Leishmania*, 741
Host resistance, effector cells in IFN-γ– and TNF-α–dependent, 1083
Human herpesvirus 6, causes thymocyte depletion in SCID mice, 1953
Human immunoglobulin λ locus, expression in mice and humans, 1611

Hypermutation, expression of human immunoglobulin λ locus in mice and humans, 1611
I-A^{g7}, pH-dependent release of CLIP from diabetes-associated, 1723
IκB kinase, role in nuclear factor κB activation and prevention of apoptosis, 1839
Idiotypes, role of exposure to, in pathology and survival in *Schistosoma* infections, 637
Immune adherence, mechanism of *Leishmania* infection, 25
Immune complex
  Fc receptors mediate dendritic cell maturation and antigen presentation after internalization of, 371
  modulation of inflammation by activation and inhibitory Fc receptors, 179
Immune regulation, interleukin 10 prevents induction of experimental autoimmune encephalomyelitis, 1005
Immune response
  additive roles of interleukin 4 and interleukin 13 in T helper cell–mediated, 1565
  effect of histamine H1 receptor signaling on, 673
  generated by dendritic cells without homing to lymph node, 593
  lipoxins inhibit tumor necrosis factor 1α–initiated neutrophil responses, 1923
  natural killer cell lysis of gene therapy-modified autologous cells, 1855
  to Ro60 and its peptides, 531
  role of $CD4^+$ T cells in, 753
  role of β7 integrins in CD8 T cell trafficking during virus infection, 1631
  Treponema pallidum protein Tpr K is opsonic target in response to syphilis, 647
Immune suppression, crucial role of CD8 cells in suppressing simian immunodeficiency virus replication, 991
Immune target, identification of novel MHC class II–restricted tumor antigen, 1659
Immune therapy, absence of "original antigenic sin" provides unforeseen platform for, 1021
Immunity
  emerging role of Toll in innate, 605
  transfection and activation of dendritic cells in DNA vaccination, 169
Immunodeficiency, specific granule deficiency results from mutation of CCAAT/enhancer binding protein ε, 1847
Immunoglobulin A
  binding regions of Fc receptors within EC1, 1715
  localization of polymeric immunoglobulin receptor binding site on, 747
Immunoglobulin binding proteins, antigen presentation increased by, 1217
Immunoglobulin E, Fcγ receptors regulate anaphylaxis mediated by, 1573
Immunoglobulin genes, role of gene-targeted modifications of κ locus in regulating rearrangement, 1443
Immunoglobulin heavy chain, extended DH–JH rearrangement in, 1295
Immunoglobulin λ locus, expression in mice and humans, 1611
Immunoglobulins
  gene rearrangement in B cells contributes to antiviral responses of, 1791
  NKp44 is novel member of superfamily of, 787
  rearrangement and expression during normal B cell development, 75
Immunology
  cysteine modifications affect immunogenicity and antigenicity of viral peptides, 1757
  evolution of antigen-specific T cell receptors, 1823
Immunosuppression
  Fas ligand required for UV-induced, 1285
  human herpesvirus 6 causes thymocyte depletion in SCID mice, 1953
Indoleamine 2,3-dioxygenase, role in inhibition of T cell proliferation by tryptophan catabolism, 1363
Inflammation
  colonic patch enlargement and T helper cell responses in hapten-induced colitis, 1169
  C-reactive protein activates soluble interleukin 6 receptor release, 599
  endotoxin-tolerant mice have mutations in Toll-like receptor 4, 615
  interaction of dendritic cells with skin endothelium in immunosurveillance, 627
  L-selectin shedding modulates leukocyte rolling velocity, 939
  mobilizing dendritic cells for, 611
  modulation by activation and inhibitory Fc receptors, 179
  neuroprotective role in brain lesions, 865
  role of IκB kinase in nuclear factor κB activation and prevention of apoptosis, 1839
  role of *N*-formylpeptide receptor in antibacterial host defense, 657
  role of P-selectin in response induced by hemorrhage, 931
  thioredoxin is unique redox-acting chemoattractant for leukocytes during, 1783
Influenza virus
  activation and protection of dendritic cells induced by RNA and, 821
  migration and localization of CD8 effector cells in protection against, 423
Inhibitory receptor, CD22 inhibits autoimmunity by regulating B cell triggering thresholds, 1307
Insulitis, disease progression requires islet response to tumor necrosis factor α, 1053
Integrins
  role of β7 integrins in CD8 T cell trafficking during antiviral immune response, 1631
  role of α4 integrins in lymphocyte recirculation, 1467
Interferon α/β
  pathway for antiviral T cell responses, 1315
  role in preventing death of activated T cells, 521
Interferon γ
  chlamydia inhibits MHC class II expression induced by, 1931
  effector cells in host resistance to toxoplasma dependent on, 1083
  effects of two distinct pathways of antigen presentation by CD1 on release of, 103
  interleukin 12–dependent production by $CD8\alpha^+$ dendritic cells, 1981
  role in B cell production of interleukin 12, 1
  role in interleukin 12 protection against experimental autoimmune uveitis, 219
  T cell lineage-specific requirement for STAT4 in production of, 1355
Interferon regulatory factor 1, role in cerebral ischemia, 719
Interferons
  regulate phenotype of herpes simplex viruses, 663
  regulation of TRAIL-mediated T cell cytotoxicity by, 1451
Interleukin 1, role in exercise-induced cardioprotection, 1699
Interleukin 4
  additive roles of interleukin 13 and, in T helper cell–mediated responses, 1565
  dominance abolished by T cell depletion cytokine-directed recovery of T helper responses, 1895
  effects of two distinct pathways of antigen presentation by CD1 on release of, 103
  expression of antitumor immunity induced by B7-2 depends on, 919
  role in cytotoxic T lymphocyte–mediated tumor immunity, 803
  role in prevention of autoimmune thyroiditis, 279
Interleukin 6
  C-reactive protein activates release of soluble receptor of, 599
  role in STAT3 activation of *c-myc* promoter, 63
Interleukin 7, role of receptor signals in early T cell development, 563
Interleukin 9, expansion of B cell population induced by, 1413
Interleukin 10
  prevents induction of experimental autoimmune encephalomyelitis, 1005
  role in B cell production of interleukin 12, 1
Interleukin 12
  cholera toxin suppresses production and receptor expression of, 541
  interferon γ production by $CD8\alpha^+$ dendritic cells dependent on, 1981
  pathway for antiviral T cell responses, 1315
  protects against experimental autoimmune uveitis, 219
  role in activation of natural killer T cells by α-galactosylceramide, 1121
  role in dendritic cell regulation of T helper cell development, 587
  role in differentiation of pathogenic autoreactive T cells, 969
  role in selectin binding and peripheral homing of T cell subsets, 1765
  T cell signals regulate B cell production of, 1
Interleukin 13
  additive roles of interleukin 4 and, in T helper cell–mediated responses, 1565
  stimulates growth of Hodgkin and Reed-Sternberg tumor cells, 1939
Interleukin 18, role of IRAK in signaling and function induced by, 1129
Interleukin 1 receptor, polymorphism in tuberculosis and antagonist of, 1863
IRAK, role in interleukin 18–induced signaling and function, 1129
Iron, transport protein NRAMP2 expression in endosomes, 831
Ischemic diseases, role of cGKI in prevention of platelet adhesion and aggregation, 1255
Islet cells, diabetes progression requires tumor necrosis factor α–dependent response of, 1053
Kaposi's sarcoma, KSHV-encoded vMIP-I is specific agonist for CCR8, 1993
Kidney, B cell–dependent and antibody-independent murine lupus, 1639
Killer cell immunoglobulin-like receptor
  HLA-G receptor expression, 1093
  role of HLA-G in modulation of myelomonocytic cells, 1149
LACK antigen, altered peptide ligands modulate T cell response to *Leishmania*, 1111
Lactacystin, role in modulation of proteasomal activity in melanoma cells, 895
Lck, signaling in memory T cells controlled by regulation of, 1521
Leishmania
  altered LACK peptides modulate T cell response to, 1111

immune adherence mechanism in infection by, 25
infection cured by T cell depletion and cytokine-directed recovery of T helper responses, 1895
role of reactive oxygen and nitrogen intermediates in killing, 741
Lentiviral vectors, cytokine signals permit HIV-1 infection of resting T cells, 1735
Leptin, endogenous protective protein against tumor necrosis factor lethality, 207
Leukemia
adult T cell, Fas mutation in progression of, 1063
B cell acute lymphoblastic, human minor histocompatibility antigen specific for, 301
different leukemogenic activity of three forms of *BCR/ABL* oncogene, 1399
retinoic acid and arsenic synergy in acute promyelocytic, 1043
role of E2A in growth inhibition and apoptosis of T cells, 501
role of STAT5 in BCR/ABL-expressing cells in, 1229
sustained granulocyte colony-stimulating factor receptor activation in acute myeloid, 683
Leukocytes
lipoxins inhibit tumor necrosis factor α–initiated responses of, 1923
L-selectin shedding modulates rolling velocity of, 939
role of L-selectin in adhesion of, 37
role of P-selectin in interaction of endothelium and, in hemorrhage, 931
thioredoxin is unique redox-acting chemoattractant for, 1783
Light chain, expression of human immunoglobulin λ locus in mice and humans, 1611
Lineage commitment, in B lymphopoiesis, occurs before and independently of V(D)J recombination, 735
Lipid antigens, molecular recognition by T cell receptors, 195
Lipopolysaccharide
emerging role of Toll in innate immunity in response to, 605
endotoxin-tolerant mice have mutations in Toll-like receptor 4, 615
novel MD-2 associates with Toll-like receptor 4 and confers responsiveness to, 1777
role of $CD34^+$ blood stem cells in T cell stimulation induced by, 693
role of CD7 in shock induced by, 1011
role of migration inhibitory factor gene in sepsis, 341
Lipoxins, inhibit tumor necrosis factor 1α–initiated neutrophil responses, 1923
Listeria monocytogenes, in interferon γ production in response to interleukin 12 and, 1981
Liver
CD40 induces hepatocyte apoptosis during allograft rejection, 441
noncytopathic clearance of lymphocytic choriomeningitis virus from hepatocyte, 1555
novel cytoplasmic antigen in human hepatocellular carcinoma, 1101
L-selectin
role in leukocyte adhesion, 37
shedding modulates leukocyte rolling velocity, 939
L-selectin ligand, cutaneous lymphocyte antigen is critical component of vascular, 241
Lung
migration and localization of CD8 effector cells in protection against pulmonary virus infection, 423
natural killer cells determine development of allergic airway inflammation, 553
role of nitric oxide synthases in airway hyperresponsiveness and inflammation in allergic asthma, 1621
Lupus
B cell–dependent and antibody-independent murine, 1639
immune responses to Ro60 and its peptides, 531
MRL defect in developmental arrest and follicular exclusion of B cells, 1799
Ly-49D, recognizes MHC I antigen $H\text{-}2D^d$ and activates natural killer cell cytotoxicity, 493
Lymph node
dendritic cells generate immune response without homing to, 593
germinal centers form without follicular dendritic cells, 855
Lymph node biopsy, constant HIV mean viral copy number, 1545
Lymph nodes, role of L-selectin in leukocyte adhesion, 37
Lymphocyte function-associated antigen 1, role in lymphocyte recirculation, 1467
Lymphocyte homing, role of CD22 in bone marrow homing of recirculating B cells, 1513
Lymphocytes
B cell antigen receptor inhibits SDF-1α chemotaxis and promotes internalization of CXCR4, 1461
role of LFA-1 and α4 integrins in recirculation of, 1467
Lymphocytic choriomeningitis virus, noncytopathic clearance from hepatocyte, 1555
Lymphoid hypoplasia, effect of graft-versus-host disease on T cell production and homeostasis, 1329
Lymphoid organs
mannose receptor expression in mouse nonlymphoid and, 1961
role of chemokines in dendritic cell migration to T cell areas of, 447
role of chemokines in lymphocyte homing and dendritic cell localization, 451
Lymphoid tissue, role of lymphotoxin α/β and tumor necrosis factor in chemokine expression, 403
Lymphokine-activated killer cells, regulation of lysis by CD1, 483
Lymphoma
B7-2 expression inhibits development of antitumor immunity, 919
interleukin 13 stimulates growth of Hodgkin and Reed-Sternberg tumor cells, 1939
Lymphomyeloid cells, transplantable and totipotent, identified in human cord blood, 1601
Lymphopoiesis, commitment to B lineage occurs before and independently of V(D)J recombination, 735
Lymphotoxin
α/β, required for expression of B and T zone chemokines, 403
role in maturation of follicular dendritic cell networks, 159
Lysis, of natural killer cells regulated by CD1, 483
Lysosomes, in mast cells, synaptotagmin negatively regulates exocytosis of, 1649
Lysteria
role of *N*-formylpeptide receptor in host defense against, 657
T cell affinity maturation by selective expansion during infection with, 701
Macrophage, T cell proliferation inhibited by tryptophan catabolism, 1363
Macrophage inflammatory protein, dominant myelopoietic effector functions mediated by CCR1, 1987
Macrophages
bind environmental particles through scavenger receptor MARCO, 1497
mannose receptor expression by, 1961
novel apoptosis inhibitor expressed by, 413
in T cell–mediated autoimmune diabetes, 347
MAGE-3
cytolytic $CD4^+$ T cells recognize epitope on HLA melanomas, 871
identification of epitopes presented by HLA to $CD4^+$ T cells, 767
Major histocompatibility complex
activation of Ly-49D receptor by $H\text{-}2D^d$ on natural killer cells, 493
antigen presentation after immune complex internalization, 371
T cell specificity modulated by functional recognition of, 883
Major histocompatibility complex class II, chlamydia inhibits interferon γ–inducible expression of, 1931
Malaria, structure and expression of adhesive molecule of mosquito invasive-stage parasite, 1947
Mammals, invariant T cell receptor α chain defines novel T cell subpopulation in, 1907
Manganese superoxide dismutase, role in exercise-induced cardioprotection, 1699
Mannose receptor, expression in mouse lymphoid and nonlymphoid organs, 1961
MARCO, role of scavenger receptor in alveolar macrophage binding of environmental particles, 1497
Mast cells
γ receptors regulate immunoglobulin E–mediated anaphylaxis, 1573
synaptotagmin negatively regulates exocytosis of lysosomes in, 1649
Matrix metalloproteinase, expression of stromelysin-3 in atherosclerotic lesions, 843
MD-2, novel molecule links Toll-like receptor 4 to lipopolysaccharide signaling, 1777
Melanoma
cytolytic $CD4^+$ T cells recognize MAGE-3 epitope, 871
identification of mutated human antigen recognized by $CD4^+$ T cells, 757
Melanoma antigen, identification of novel MHC class II–restricted, 1659
Melanoma cells, presentation of tumor peptide antigen MAGE-3 by, 895
Memory, subclasses of dendritic cells regulate development of T helper cells, 587
Memory T cells, regulation of Lck targeting controls signaling in, 1521
Mesangial cells, mannose receptor expression by, 1961
Migration
B cell antigen receptor inhibits SDF-1α chemotaxis and promotes internalization of CXCR4, 1461
and localization of CD8 effector cells in protection against pulmonary virus infection, 423
mobilizing dendritic cells for tolerance, priming and chronic inflammation, 611
of phagocytes, mediated by FPRL1 in response to serum amyloid A, 395
role of β7 integrins in CD8 T cell trafficking during antiviral immune response, 1631
role of LFA-1 and α4 integrins in lymphocyte recirculation, 1467
selectin binding and peripheral homing properties of T cell subsets, 1765

thioredoxin is unique redox-acting chemoattractant for leukocytes, 1783
Migration inhibitory factor, role in sepsis, 341
Mimicry, microbial epitopes act as altered peptide ligands to prevent EAE, 1275
Minor histocompatibility antigen, specific for B cell acute lymphoblastic leukemia, 301
Mismatch repair, role of Msh2 in B cell immune response, 471
Mitochondria
regulation of granzyme B–induced apoptosis by, 131
release of caspases during apoptosis, 381
Mitogen-activated protein kinase, pathway link of ubiquitin-dependent degradation of Bcl-2, 1815
Modulins, characterization of inflammatory polypeptide from *Staphylococcus epidermidis*, 907
Monocytes
cholera toxin suppresses production and receptor expression of interleukin 12, 541
role of TRAIL in tumoricidal activity mediated by, 1343
Mucosa, role of β7 integrins in CD8 T cell trafficking during antiviral immune response, 1631
Mucosal immunity, localization of polymeric immunoglobulin receptor binding site on immunoglobulin A, 747
Multiple sclerosis
microbial epitopes act as altered peptide ligands to prevent EAE, 1275
neurotrophin production by immune cells, 865
spontaneous regression of autoreactivity in, 1033
Mutagenesis, role of T cell receptor β chain Cβ FG loop in T cell development and function of, 1679
Mutant viruses, interferons regulate phenotype of herpes simplex viruses, 663
Mutation, gene rearrangement in B cells contributes to antiviral immunoglobulin responses, 1791
Mycobacteria
influence of glutamine synthetase inhibitors on growth of *M. tuberculosis*, 1425
polymorphism in interleukin-1 receptor antagonist and tuberculosis, 1863
role of CD1D and TAP1 in tuberculosis infection, 1973
Mycobacterium tuberculosis
influence of polymorphism in interleukin-1 receptor antagonist and IL-1β, 1863
role of CD1D and TAP1 in infection with, 1973
Mycolic acid, role in molecular recognition of lipid antigens by T cell receptors, 195
Myeloid progenitor cells, role of CCR1 in proliferation and mobilization of, 1987
Myelomonocytic cells, role of HLA-G in modulation of, 1149
Myelopoiesis, specific granule deficiency results from mutation of CCAAT/enhancer binding protein ε, 1847
Myocardial infarction, role of manganese superoxide dismutase in exercise-induced cardioprotection, 1699
Natural killer cells
activation of Ly-49D receptor by MHC I antigen H-2D^d, 493
determine development of allergic airway inflammation, 553
human histocompatibility leukocyte antigen G receptor expressed on, 1093
interactions of HLA-G, 1149
lysis of gene therapy-modified autologous cells mediated by, 1855
molecular cloning of NKp44 receptor, 787
regulation of lysis by CD1, 483
role of HLA-C transmembrane sequence to inhibit, 1265
role of IRAK in interleukin 18–induced signaling and function, 1129
Natural killer T cells
immunopotentiating mechanisms of α-galactosylceramide, 1121
role in regulation of graft-versus-host disease, 1073
Nef, Fas ligand expression by HIV involves interaction of T cell receptor with, 1489
Neonatal exposure, to idiotypes, in pathology and survival in *Schistosoma* infections, 637
Nephritis, B cell–dependent and antibody-independent murine lupus, 1639
Nervous system, neurotrophin production by immune cells, 865
Neurotrophin, production by immune cells, 865
Neutral sphingomyelinase, role in T cell receptor signaling for ceramide production mediated by, 1581
Neutropenia, sustained granulocyte colony-stimulating factor receptor activation in severe congenital, 683
Neutrophils
lipoxins inhibit tumor necrosis factor α–initiated responses of, 1923
role of *N*-formylpeptide receptor in function of, 657
specific granule deficiency results from mutation of CCAAT/enhancer binding protein ε, 1847
thioredoxin is unique redox-acting chemoattractant for, 1783
N-formylpeptide receptor, role in antibacterial host defense, 657
Nitric oxide
role of cGKI in prevention of platelet adhesion and aggregation, 1255
role in interleukin 12 protection against experimental autoimmune uveitis, 219
Nitric oxide synthases, role in airway hyperresponsiveness and inflammation in allergic asthma, 1621
Nitrogen, role of intermediates of reactive oxygen and, in killing visceral *Leishmania*, 741
NKp44, molecular cloning of triggering receptor involved in tumor cell lysis, 787
Noncytopathic clearance, of lymphocytic choriomeningitis virus from hepatocyte, 1555
Nonobese diabetic–severe combined immunodeficiency, lymphomyeloid progenitor cells in marrow, 1601
NRAMP2, iron transport protein expression in endosomes, 831
Nuclear factor κB
RelA regulates multiple immune-response genes and Fas-induced cell death, 999
role of IκB kinase in activation of, 1839
role in promoting double positive thymocyte apoptosis, 145
Nuclear factor of activated T cells, GrpL interacts with SLP-76 to regulate activation of, 1243
Nuclear receptors, HIV-1 virion-associated protein Vpr is coactivator of human glucocorticoid receptor, 51
Obesity, leptin is endogenous protective protein against tumor necrosis factor lethality, 207
Ookinete, structure and expression of adhesive molecule of mosquito invasive-stage malarial parasite, 1947
Osteoblasts, cells capable of bone production engraft from whole bone marrow transplants, 729
Oxygen, role of intermediates of reactive nitrogen and, in killing visceral *Leishmania*, 741
p55, diabetes progression requires islet response mediated by, 1053
p62, novel cytoplasmic antigen in human hepatocellular carcinoma, 1101
P_2 protein, autoimmune reactions in *Aspergillus* allergy to, 1507
p21-activated kinase, required for *Salmonella* signaling, 1479
Paired immunoglobulin-like receptors, biochemical nature and cellular distribution of, 309
Pancreas, initiation of diabetes by regulated presentation of islet cell antigens, 331
Parasites, role of reactive oxygen and nitrogen intermediates in killing visceral *Leishmania*, 741
Parasitic infection, immune adherence mechanism of *Leishmania* infection, 25
Parasitic invasion, structure and expression of adhesive molecule in ookinete of *Plasmodium berghei*, 1947
Pathogenesis, interferons regulate phenotype of herpes simplex viruses, 663
PEP, cooperative inhibition of T cell activation by complex of Csk and, 111
Peptides, influence during positive thymic selection, 13
pH, release of CLIP from diabetes-associated I-A^{g7}, 1723
Phenol-soluble modulin, characterization of inflammatory polypeptide from *Staphylococcus epidermidis*, 907
Phorbol ester, early induction of cyclin D2 expression in B-1 cells responsive to, 1685
Phosphorylation, of T cell receptor ITAMs, role of ZAP-70 in, 1163
PIR-A, biochemical nature and cellular distribution of activating receptor, 309
PIR-B, biochemical nature and cellular distribution of inhibitory receptor, 309
Plasma, effect of recombinant human factor XIII on endothelial barrier function, 1373
Plasmodium berghei, structure and expression of adhesive molecule in ookinete of, 1947
Platelets, role of cGKI in prevention of adhesion and aggregation of, 1255
Polymeric immunoglobulin receptor, localization of binding site on immunoglobulin A, 747
Positive selection, influence of endogenous peptides during, 13
Pregnancy
HLA-G receptor expressed on natural killer cells, 1093
role of HLA-G in modulation of myelomonocytic cells, 1149
Pre-T cell receptor, expression of α gene controlled by upstream transcriptional enhancer, 1669
Primary immune response, determined by timing of recruitment of individual T cell clones, 1591
Protease inhibitor, L-selectin shedding modulates leukocyte rolling velocity, 939
Proteasome
modulation of activity of, 895
ubiquitin-dependent degradation of Bcl-2, 1815
P-selectin, role in leukocyte–endothelium interaction in hemorrhage, 931
Pseudomonas, role of migration inhibitory factor gene in sepsis, 341
Psoriasis, mechanism of narrow-band ultraviolet B light treatment for, 711
Pulmonary disease
autoimmune reactions to human P_2 protein in *Aspergillus* allergy, 1507

natural killer cells determine development of allergic airway inflammation, 553
role of nitric oxide synthases in airway hyperresponsiveness and inflammation in asthma, 1621
Pulmonary infection, migration and localization of CD8 effector cells in protection against, 423
Quantitative analysis, constant HIV mean viral copy number, 1545
RANK, new signal pathway in lymphocyte development and T cell activation, 1017
Ras, role in development of RAG-deficient B cells, 123
Recombinant human factor XIII, effect on endothelial barrier function, 1373
Recombination
commitment to B lineage occurs before and independently of, 735
extended DH–JH rearrangement in immunoglobulin heavy chain, 1295
positive and negative regulation of V(D)J rearrangement by E2A proteins, 289
rearrangement and expression of immunoglobulins during B cell development, 75
role of gene-targeted modifications of κ locus in regulating rearrangement, 1443
Recombination-activating gene, role of activated Ras in development of B cells deficient in, 123
Reed-Sternberg cells, interleukin 13 stimulates growth of Hodgkin and, 1939
RelA, regulates multiple immune-response genes and Fas-induced cell death, 999
Renal cell carcinoma, interferons regulate TRAIL-mediated T cell cytotoxicity in, 1451
Resistance
activation and protection of dendritic cells induced by influenza virus and RNA, 821
regulation of natural killer cell lysis by CD1, 483
Retinoic acid, synergy of arsenic and, in acute promyelocytic leukemia, 1043
Rheumatoid arthritis, role of Fcγ receptor in suppressing collagen-induced arthritis, 187
RNA, activation and protection of dendritic cells induced by, 821
Ro60, immune responses to, and its peptides, 531
Salmonella
endotoxin-tolerant mice have mutations in Toll-like receptor 4, 615
requirement of p21-activated kinase for responses induced by, 1479
Scavenger receptor
alveolar macrophages bind environmental particles through MARCO, 1497
cysteine-rich superfamily, AIM is novel apoptosis inhibitory factor of, 413
Schistosoma, role of idiotypic exposure in pathology and survival in infection with, 637
Secondary lymphoid organs
role of chemokines in dendritic cell migration, 447
role of chemokines in lymphocyte homing and dendritic cell localization, 451
Secretory immunoglobulin A, localization of polymeric immunoglobulin receptor binding site on, 747
Selectins
properties of naive T cells to bind, 1765
role in interaction of dendritic cells with skin endothelium, 627
role in leukocyte adhesion, 37
role in regulating leukocyte rolling velocity, 939
Selection
Bad regulates T cell development and apoptosis, 575
negative and positive, based on T cell receptor–ligand complex, 1531
of preferred complementarity-determining region 3 motifs of T cell receptor, 1823
Sepsis
characterization of inflammatory polypeptide from *Staphylococcus epidermidis*, 907
role of migration inhibitory factor gene in, 341
Septic shock, role of CD7 in lipopolysaccharide-induced, 1011
Serpins, stromelysin-3 expression in atherosclerotic lesions, 843
Serum amyloid A, activation of chemoattractant receptor FPRL1 by, 395
Severe congenital neutropenia, sustained granulocyte colony-stimulating factor receptor activation in, 683
SHP2, T cell activation regulated by transmembrane adaptor protein, 1181
Signal transducer and activator of transcription 3, activation of *c-myc* promoter by, 63
Signal transduction
role of activated Ras in development of RAG-deficient B cells, 123
T cell activation inhibited by Csk-PEP complex, 111
Signaling
effect of histamine H1 receptor on immune responses, 673
Grb2 binds to tumor necrosis factor receptor I, 1707
in memory T cells, controlled by regulation of Lck targeting, 1521
novel MD-2 associates with Toll-like receptor 4 and confers lipopolysaccharide responsiveness, 1777
requirement of p21-activated kinase for *Salmonella*-induced responses, 1479
role of B7 in activation of cytotoxic T lymphocyte–associated antigen 4–deficient T cells, 435
role of cytokine and antigen receptors in early T cell development, 563
role of IκB kinase in nuclear factor κB activation and prevention of apoptosis, 1839
SHP2-interacting transmembrane adaptor protein regulates human T cell activation, 1181
of T cell receptor, role for neutral sphingomyelinase-mediated ceramide production in, 1581
T cell receptor antagonism during commitment and activation of T cells, 253
of T cells, interaction of Grf40 and SLP-76 in, 1383
ZAP-70 augments ITAM phosphorylation in immature thymocytes, 1163
Simian immunodeficiency virus, crucial role of CD8 cells in suppressing replication of, 991
Skin
Fas ligand required for UV-induced systemic immune suppression, 1285
interaction of dendritic cells with endothelium in immunosurveillance, 627
mandatory cytotoxicity in contact hypersensitivity mediated by $CD8^+$ T cells, 779
mechanism of narrow-band ultraviolet B light treatment for psoriasis, 711
SLP-76, interaction of Grf40 and, in T cell signaling, 1383
Soluble protein A, antigen presentation increased by immunoglobulin binding proteins, 1217
Somatic hypermutation, role of Msh2 in B cell immune response, 471
Specific granule deficiency, results from mutation of CCAAT/enhancer binding protein ε, 1847
Specificity, of T cells, functional recognition of major histocompatibility complex modulates, 883
Sphingomyelinase, role in T cell receptor signaling for ceramide production mediated by neutral, 1581
Spleen, role of lymphotoxin α/β and tumor necrosis factor in expression of B and T zone chemokines, 403
Splenomegaly, role of idiotypic exposure in pathology and survival in *Schistosoma* infections, 637
Src homology, STAT5 activation in leukemogenesis depends on, 1229
Src kinases, role in inhibition of T cell activation, 111
Staphylococcus epidermidis, isolation and characterization of inflammatory polypeptide from, 907
STAT3, gp130-mediated activation of *c-myc* promoter by, 63
STAT4, T cell lineage-specific requirement for, in interferon γ production, 1355
STAT5, role in BCR/ABL-expressing cells in leukemia, 1229
Stem cells
accessory function of $CD34^+$ in T cell stimulation and CD80 expression, 693
bone morphogenetic proteins regulate, 1139
identification of transplantable and totipotent lymphomyeloid cells in human cord blood, 1601
Streptococcus, identification and characterization of novel superantigens from, 89
Stress protein, calreticulin elicits tumor- and peptide-specific immunity, 797
Stroke, role of interferon regulatory factor 1 in cerebral ischemia, 719
Stromal cell–derived factor 1α, B cell antigen receptor inhibits chemotaxis of, 1461
Stromelysin-3, expression in atherosclerotic lesions, 843
Superantigens, identification and characterization of novel streptococcal, 89
Synaptotagmin, negatively regulates exocytosis of lysosomes in mast cells, 1649
Syphilis, *Treponema pallidum* protein Tpr K is opsonic target in response to, 647
Systemic lupus erythematosus
immune responses to Ro60 and its peptides, 531
MRL defect in developmental arrest and follicular exclusion of B cells, 1799
T cell acute lymphoblastic leukemia, role of E2A in growth inhibition and apoptosis of cells in, 501
T cell anergy, differential avidity of T cell receptor accounts for, 265
T cell memory, transfection and activation of dendritic cells in DNA vaccination, 169
T cell receptor
antagonism without negative signal, 253
differential avidity accounts for T cell anergy, 265
effects of complementarity determining region mutations on affinity of, 461
evolution of antigen-specific, 1823
expression of α gene controlled by upstream transcriptional enhancer, 1669
Fas ligand expression by HIV involves interaction of Nef with, 1489
functional recognition of major histocompatibility complex modulates T cell specificity, 883

identification and characterization of novel streptococcal superantigens, 89
influence of endogenous peptides during positive thymic selection, 13
invariant α chain defines novel T cell subpopulation in mammals, 1907
molecular recognition of lipid antigens by, 195
negative and positive selection based on complex of ligand and, 1531
overlapping role with cytokine receptor in early T cell development, 563
positive and negative regulation of V(D)J recombination by E2A proteins in, 289
role of Cβ FG loop of β chain in T cell development and function, 1679
role of α chain fourth hypervariable loop in T cell recognition, 509
role for neutral sphingomyelinase-mediated ceramide production in signaling, 1581
xeno-reactivity in the absence of molecular mimicry, 359
ZAP-70 augments ITAM phosphorylation in immature thymocytes, 1163
T cells
accessory function of $CD34^+$ blood stem cells in stimulation of, 693
activation inhibited by Csk-PEP complex, 111
activation requires B7 if deficient in cytotoxic T lymphocyte–associated antigen 4, 435
affinity maturation by selective expansion during infection, 701
altered LACK peptides modulate response of, 1111
asthmatic reactions induced by peptide epitope of, 1885
B cell growth stimulated by novel tumor necrosis factor family ligand expressed by, 1747
Bad regulates development and apoptosis of, 575
$CD8^+$, CTLA-4 directly regulates, 1157
clonal hierarchy in responses of, 1591
c-Myc regulates HIV-1 infection in activated, 1391
critical role of cyclin-dependent kinase Cdk2 in apoptosis of, 957
crucial role of CD8 in suppressing simian immunodeficiency virus replication, 991
cytokine and antigen receptor signals in early development of, 563
cytokine signals permit HIV-1 infection of resting, 1735
dendritic cells generate immune response without homing to lymph node, 593
effect of graft-versus-host disease on production of, 1329
functional recognition of major histocompatibility complex modulates specificity of, 883
GrpL interacts with SLP-76 to regulate NF-AT activation, 1243
human herpesvirus 6 causes depletion of, in SCID mice, 1953
identification of MAGE-3 epitopes presented by HLA to $CD4^+$, 767
identification of mutated human melanoma antigen recognized by $CD4^+$, 757
initiation of diabetes by regulated presentation of pancreatic islet cell antigens, 331
interferon α/β and interleukin 12 pathways for antiviral responses of, 1315
interferons regulate TRAIL-mediated cytotoxicity of, 1451
invariant T cell receptor α chain defines novel subpopulation of, 1907
leishmaniasis cured by depletion of, and cytokine-directed recovery of T helper responses, 1895
leukocyte trafficking in mice lacking secondary lymphoid organ chemokine, 451
lineage-specific requirement for STAT4 in interferon γ production, 1355
mediate CD40-independent maturation of dendritic cells, 1875
narrow-band ultraviolet B light induces apoptosis in psoriatic lesions, 711
novel Grb2 family member involved in signaling of, 1383
peripheral autoantigen induces regulatory, 877
regulation of Lck targeting controls signaling in, 1521
restrained antitumor effector function of cytotoxic, 811
role of 4C8 antigen in transmigration process of, 979
role of $CD4^+$ in antitumor immune responses, 753
role of CD7 in lipopolysaccharide-induced shock, 1011
role of CD1D and TAP1 in tuberculosis infection, 1973
role of chemokines in dendritic cell migration to, 447
role of β7 integrins during antiviral immune response in trafficking of, 1631
role of interferon α/β in preventing death of activated, 521
role of interleukin 12 in differentiation of pathogenic autoreactive, 969
role of macrophages in autoimmune diabetes mediated by, 347
role of natural killers in regulation of graft-versus-host disease, 1073
role of T cell receptor β chain Cβ FG loop in development and function of, 1679
role of TRANCE in CD40L-independent activation of, 1025
role of transforming growth factor β and interleukin 4 in prevention of autoimmune thyroiditis, 279
selectin binding and peripheral homing properties of, 1765
SHP2-interacting transmembrane adaptor protein regulates activation of, 1181
T cell receptor antagonism during commitment and activation of, 253
thioredoxin is unique redox-acting chemoattractant for, 1783
TRANCE–RANK pathway involved in activation of, 1017
transforming growth factor β inhibits FasL expression and apoptosis in, 231
tryptophan catabolism inhibits proliferation of, 1363
two distinct pathways of antigen presentation by CD1, 103
xeno-reactivity in the absence of molecular mimicry, 359
T helper cells
additive roles of interleukin 4 and interleukin 13 in responses mediated by, 1565
cholera toxin inhibits immune responses by suppressing production of interleukin 12, 541
leishmaniasis cured by T cell depletion and cytokine-directed recovery of, 1895
role of interleukin 4 in cytotoxic T lymphocyte–mediated tumor immunity, 803
role of IRAK in interleukin 18–induced signaling and function, 1129
subclasses of dendritic cells regulate development of, 587
vMIP-I is specific agonist for CCR8 expressed on, 1993
T lymphoma, interleukin 4–dependent expression of antitumor immunity induced by B7-2, 919
TALL, role of E2A in growth inhibition and apoptosis in T cell acute lymphoblastic leukemia cells, 501
Thioredoxin, unique redox-acting chemoattractant for leukocytes, 1783
Thymic deletion, differential avidity of T cell receptor accounts for T cell anergy, 265
Thymic selection, influence of endogenous peptides during, 13
Thymocytes
AIM is novel inhibitor of apoptosis in, 413
critical role of cyclin-dependent kinase Cdk2 in apoptosis of, 957
negative and positive selection based on T cell receptor–ligand complex, 1531
role of nuclear factor κB in promoting apoptosis of double positive, 145
ZAP-70 augments ITAM phosphorylation in immature, 1163
Thymus, human herpesvirus 6 causes thymocyte depletion in SCID mice, 1953
Thyroiditis
peripheral autoantigen induces regulatory T cells that prevent autoimmunity, 877
role of transforming growth factor β and interleukin 4 in prevention of autoimmune, 279
Tolerance
dendritic cells generate immune response without homing to lymph node, 593
differential avidity of T cell receptor accounts for T cell anergy, 265
to endotoxin, mutations in Toll-like receptor 4 in mice with, 615
immune responses to Ro60 and its peptides, 531
mobilizing dendritic cells for, 611
subclasses of dendritic cells regulate development of T helper cells, 587
Toll, emerging role in innate immunity, 605
Toll-like receptor 4
emerging role in lipopolysaccharide response and innate immunity, 605
endotoxin-tolerant mice have mutations in, 615
novel MD-2 confers lipopolysaccharide responsiveness on, 1777
Toxoplasma, hemopoietic and nonhemopoietic compartments in resistance to, 1083
Tpr K, *Treponema pallidum* protein is opsonic target, 647
TRAIL
interferon-regulated T cell cytotoxicity mediated by, 1451
tumoricidal activity by human monocytes mediated by, 1343
TRANCE
new signal pathway in lymphocyte development and T cell activation, 1017
role in CD40L-independent T cell activation, 1025
Transcription
expression of pre-T cell receptor α gene controlled by upstream enhancer, 1669
specific granule deficiency results from mutation of CCAAT/enhancer binding protein ε, 1847
Transcription factor, role of interferon regulatory factor 1 in cerebral ischemia, 719
Transferrin, iron transport protein NRAMP2 colocalizes in endosomes with, 831
Transforming growth factor β
inhibits FasL expression via c-Myc, 231
role in prevention of autoimmune thyroiditis, 279
Transmembrane adaptor proteins, SIT regulates human T cell activation, 1181
Transmembrane sequence, of HLA-C, role to inhibit natural killer cells, 1265

Transmigration, of T cells, role of 4C8 antigen in, 979
Transplantation
bone morphogenetic proteins regulate human blood stem cells, 1139
cells capable of bone production engraft from whole bone marrow transplants, 729
effect of graft-versus-host disease on T cell production and homeostasis, 1329
identification of transplantable and totipotent lymphomyeloid cells in human cord blood, 1601
role of natural killer T cells in regulation of graft-versus-host disease, 1073
T cell xeno-reactivity in the absence of molecular mimicry, 359
Transporter associated with antigen processing, role in tuberculosis infection of CD1D and, 1973
TRAP, structure and expression of adhesive molecule related to, in ookinete of malarial parasite, 1947
Treponema pallidum, Tpr K is opsonic target, 647
Tryptophan, T cell proliferation inhibited by catabolism of, 1363
Tuberculosis
influence of glutamine synthetase inhibitors on growth of mycobacteria, 1425
polymorphism in interleukin-1 receptor antagonist and, 1863
role of CD1D and TAP1 in infection with, 1973
Tumor antigen, identification of novel MHC class II–restricted, 1659
Tumor immunity
human minor histocompatibility antigen specific for B cell acute lymphoblastic leukemia, 301
role of interleukin 4 in cytotoxic T lymphocyte–mediated, 803
Tumor necrosis factor
B cell growth stimulated by novel family ligand of, 1747
Grb2 binds to receptor I of, 1707
leptin is endogenous protective protein against lethality of, 207
monocyte-mediated tumoricidal activity via TRAIL, 1343
required for expression of B and T zone chemokines, 403
role in exercise-induced cardioprotection, 1699
role in maturation of follicular dendritic cell networks, 159
role of TRANCE in CD40L-independent T cell activation, 1025
TRANCE–RANK pathway in lymphocyte development and T cell activation, 1017
Tumor necrosis factor α
diabetes progression requires islet response to, 1053
effector cells in host resistance to toxoplasma dependent on, 1083
lipoxins inhibit neutrophil responses initiated by, 1923
Tumors
B7-2 expression inhibits development of antitumor immunity, 919
calreticulin elicits immunity specific to, 797
cytolytic $CD4^+$ T cells recognize MAGE-3 epitope on HLA melanomas, 871
Fas ligand required for UV-induced systemic immune suppression, 1285
identification of MAGE-3 epitopes presented by HLA to $CD4^+$ T cells, 767
identification of mutated human melanoma antigen recognized by $CD4^+$ T cells, 757
interferons regulate TRAIL-mediated T cell cytotoxicity against, 1451
interleukin 13 stimulates growth of Hodgkin and Reed-Sternberg cells, 1939
novel cytoplasmic antigen in human hepatocellular carcinoma, 1101
restrained effector function of cytotoxic T lymphocytes, 811
role of $CD4^+$ T cells in immune responses against, 753
role of NKp44 receptor in cell lysis of, 787
role of TRAIL in monocyte-mediated activity against, 1343
specific immunological activity of tumor-derived heat shock protein gp96, 1437
Ultraviolet light
Fas ligand required for systemic immune suppression induced by, 1285
mechanism of narrow-band UVB treatment for psoriasis, 711
Upstream stimulatory factor 1, chlamydia inhibits interferon γ–inducible MHC class II expression by degradation of, 1931
Uveitis, interleukin 12 protects against experimental autoimmune disease, 219
Vα domain, role of fourth hypervariable loop in T cell recognition, 509
V gene, expression of human immunoglobulin λ locus in mice and humans, 1611
Vaccination
transfection and activation of dendritic cells in, 169
Treponema pallidum protein Tpr K is opsonic target in response to syphilis, 647
V(D)J rearrangement
E2A proteins positively and negatively regulate, 289
in immunoglobulin heavy chain, 1295
V(D)J recombination, commitment to B lineage occurs before and independently of, 735
Viral determinants, cysteine modifications affect immunogenicity and antigenicity of, 1757
Viral infection
$CD8^+$ T cells mediate CD40-independent maturation of dendritic cells, 1875
interferon α/β and interleukin 12 pathways for T cell responses during, 1315
natural killer cell lysis of gene therapy-modified autologous cells, 1855
Viral replication, crucial role of CD8 cells in suppressing simian immunodeficiency virus, 991
Viral RNA, constant HIV mean viral copy number, 1545
Virulence factor, role of WI-1 in adherence and virulence of *Blastomyces dermatitidis*, 1207
Virus, gene rearrangement in B cells contributes to antiviral immunoglobulin responses, 1791
V-J rearrangement, role of gene-targeted modifications of κ locus in regulating, 1443
vMIP-I, Kaposi's sarcoma–related herpesvirus-encoded specific agonist for CCR8, 1993
Vpr, HIV-1 virion-associated protein is coactivator of human glucocorticoid receptor, 51
WI-1, role in adherence and virulence of *Blastomyces dermatitidis*, 1207
Xeno-reactivity, of T cells, in the absence of molecular mimicry, 359
Xenotransplantation, bone morphogenetic proteins regulate human blood stem cells, 1139
ZAP-70, augments ITAM phosphorylation in immature thymocytes, 1163
ZBP-89, role in thymocyte-specific gene expression and T cell development, 1669
Zinc dependency, identification and characterization of novel streptococcal superantigens, 89